Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

PRICE CHANGES AND THE BUSINESS OUTLOOK

With the turn of the year came a change for the better in general business. This was pronounced in the steel trade, perceptibly felt in the dry goods industry, and its influence noted in other trades all along the line. It was less felt in the engineering and contracting field than in any other, but that was to be expected, for business activity has always shown later in this field than in any other.

The iron trade is phenomenally good. The leading interests are operating at the rate of 93% of capacity, and the independent mills are even more actively engaged. Of course, a goodly share of this is for war orders, perhaps 25% of the total output, but domestic trade is continuing without abatement week by week, and it is only a question of time when car orders will be much larger. There have been numerous advances in iron and steel products, and the scrap market continues to make new high records almost weekly.

The volume of war orders is almost beyond comprehension, and if the trade were not satisfied with the large volume of business being booked, there is every reason to believe that a strong effort would be made at the coming session of Congress to put through a bill which would result in piling up munitions of war in the United States on a stupendous scale.

The ridiculous prices which have been current for metals have given way. Electrolytic copper has been sold down as low as 18½c. This, however, was not from the producers but from second-hands who had overbought. This, perhaps, was an extreme figure, but it did show that the market was to some extent artificial. The price of tin has likewise declined, lead is easier, and spelter down to more nearly normal level.

The activity in shipbuilding work continues. It will be a question of only a short time before new shipbuilding yards will be projected, and probably on an enormous scale. An extensive program of steel building capacity has been arranged in the Youngstown district, and it is evident that the producing capacity will soon be found to be too small for the demand.

The agricultural outlook is more promising but not as hopeful as it might be. The corn crop is late. There is no doubt that it is two to three weeks behind normal. Of course with a succession of hot days great improvement would be shown, as the plant has a good start and the acreage is large. The corn crop has for a great many years been more or less a true guide to business activity. Of course it will not be so much of a factor this year when there will be large exports of wheat.

Construction in New York is active, although building has fallen off. The subway work keeps up, and some extremely large contracts for track materials, ballast, and the like will be let in the next few weeks. There is no doubt that every effort has been made to push construction work on the subway at a time of low prices.

Financial conditions are very satisfactory. The indebtedness of the United States to Europe has been greatly reduced, but not altogether eliminated. The stock of gold in this country is abnormally large. Capital is available in limited amounts for new enterprises, but the supply of time money is almost beyond comprehension. It is undoubtedly a period of economy, retrenchment, and paying of bills, but such a period of affairs, be they those of a nation, a state, or an individual, leads to wealth in a very short time.

CEMENT, LIME AND BRICK

Portland Cement—The prices of cement show no change compared with last month, and the demand is slightly better. It cannot be said that any of the mills are rushed with orders, but there is undoubtedly considerably more business than there was a month ago. The advance of July 1 did not retard buying to any marked degree, but it did not hasten matters at all. The price is now $1.42 New York, equivalent to $1.02 less the charge for bags. The following quotations are current at the points named, and do not include the usual charge for bags:

Chicago	$1.11	Boston	1.26
Detroit	1.20	Cleveland	1.20
Jersey City,	.84	Duluth	1.37
New York	1.03	Minneapolis	1.37
St. Paul	1.37	Pittsburgh	1.05

Brick—The market in New York is very quiet. Some talk is heard of the Hudson River brick yards closing down late in August or early in September. This step will be taken to prevent any accumulation either at the yards or in New York. The price is attractive to those who believe building will improve for brick can be had at $5.25 to $5.75 New York.

Labor—The demand is small, yet some orders have been received by labor agencies in the City of New York, offering $1.65 and $1.70 for laborers to go out of town, and it has been impossible to fill these. There is great deal more work than a month ago, and fewer men to do it; but the expected shortage of labor which has been predicted, has not as yet materialized. Of course, it is the belief of those who have given the matter much careful attention that this is simply postponing the time and not in any way lessening the belief that there will be a real shortage later. It is evident that a great deal of the surplus labor has been taken in hand, and put to work; while an epidemic of strikes late last month may be taken to indicate that the point has nearly been reached when laborers could be induced to work for the same rate of pay as formerly.

Crushed Stone—Considerable exception has been taken to statements made in "Engineering News" a month ago that "as low as 65c. per cu.yd. alongside of dock has been done," and this is vigorously denied in certain quarters. There is no doubt, however, that some low quotations have been made. For example, late in the month of July there was vigorous bidding on a contract for 6000 yd. of 1½-in. stone for the Dock Department, and as low as 62c. was bid. There was another bid of 65c., and an oldtime seller of stone bid 67½c. It was pointed out, however, that this was a very desirable contract, as the Dock Department takes a great deal of its material in the winter, when times are usually dull. Considerable interest is evidenced about a contract for 300,000 yd. for ballast for the New York municipal railways, and there is undoubtedly more business than a year ago.

IRON AND STEEL

Pig Iron—The chief interest in the pig iron market has been the rapid expansion in the demand for steel-making iron. Foundry iron has not picked up with the quickness evident in the market for steel-making iron, but it has gone ahead faster than most people believe. There is little doubt that a great deal of the cheap iron has been gathered by speculators, who will keep it off the market until prices are considerably higher. As it is, there are not many furnaces that are disposed to sell far ahead at prevailing prices. Most of them are anxious for business for nearby delivery, but fight shy of future contract. This is the most healthy sign of the market. Of course, many of the furnaces have a good back log in orders placed some time ago, at lower prices it is true, but still sufficiently remunerative to make them quite independent as far as new business is concerned. Prices as stated are considerably higher, and for lots of 100 tons and over prices named are as follows:

Cincinnati Southern Foundry No. 2, $13 to $13.50; Cincinnati Northern Foundry No. 2, $14.25 to $14.75; Cincinnati Northern Foundry No. 3, $14.25 to $14.50; New York Northern Foundry No. 2 plain, $13.75 to $14; New York Southern Foundry No. 2, $14.25; New York Northern Foundry No. 2X, $14.25 to $14.50.

In Chicago, Northern Foundry No. 2 is $13 to $13.50; in Birmingham, Southern Foundry No. 2 is $10 to $10.25. In Pittsburgh, Bessemer iron is $15.20 and basic $13.95. These quotations include the 95c. freight charge from the valley to the Pittsburgh district.

Steel Rails—Business is active, the leading mills of the United States Steel Corporation running practically full time, but some of their operations are confined to light rails, chiefly for the lumber interests, for the coal mining industry is not buying rails to any extent. The rail mills have recently taken some work for rounds which will go into shrapnel. The order for the Russian Government has been partially closed, but there is still quite a little more foreign business that has to be developed. There is no doubt that the railroads will buy more rails for track maintenance this year than they did last, but they are still economizing to a marked degree. Quotations show no change, and for lots of 1000 tons or over, prices are as follows: Standard sections of Bessemer, $28; open hearth, $30; both per gross ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40 per gross ton; in 60-ft. lengths $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots, prices given being in cents per lb., are as follows: Standard sections, 1.25c.; 20- to 30-lb., 1.15c.; 15- to 20-lb., 1.20c.; 12- to 18-lb., 1.25c.; 8- to 12-lb., 1.30c.

Track Supplies—Makers of spikes have not received any orders lately, but they say that the railroads have contracted for enough material to keep them busy for several months to come. Prices of spikes are unchanged, the demand for tie plates continues to increase. Standard railroad spikes are quoted at 1.50 to 1.55c., track bolts and square nuts, 1.90 to 2c.; all in carload lots. Tie plates are $25 to $26 per net ton at the mill. Angle bars are quoted at the unchanged price of 1.50c. Chicago. These prices, with the exception of those for tie plates, are given in cents per lb.

Structural Materials—The rapid increase in the amount of work required for New York City has kept many of the structural mills busy. Subways and rapid transit extensions in New York are demanding more steel than any one thought they would a year ago. In consequence, this has proved a very good foundation, then, too, there have been a number of hurry orders for structural steel for factory work. All of this stuff has been of the utmost urgency, for delivery was essential, and sometimes be only requisite. In the Youngstown district there is an active program of steel mill construction going on, and this is taking a very fair tonnage of steel. The railroads are not heavy buyers of steel at present, but the car supply must be augmented soon. Prices show no change from last month. I-beams 3- to 15-in., channels 3- to 15-in., angles 3- to 6-in., T's 3-in. and over, are 1.25c. Pittsburgh. Other quotations, including I-beams over 15 in., H-beams 18 in. and over, channels over 15 in., angles over 6 in., are $1.30. Cutting to specified lengths is charged at the following rates: 2 ft. to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., 1.55. No charge is made for cutting to specified lengths above 3 ft. In Philadelphia, the base price is $1.41; in San Francisco, $2.05 to $2.10; in New York, $1.42. All of these quotations are per 100 lb.

Plates—The shipbuilding works are taking plates freely, but the car builders have not bought as many plates as was expected. The mills rolling plates are fairly busy, and prices are firm. Car orders include 1000 gondolas for the Lake Shore, 1500 automobile cars for the New York Central, a number of mine cars for a coke concern, as well as coal cars for some of the smaller lines. It is evident that shipbuilding work will continue to be just as active as it has been, for

the next two or three years. It is possible that some new shipyards may be built on the Atlantic Coast. The minimum for plates is now $1.25 Pittsburgh. This is equivalent to $1.34 Chicago, $1.41 Philadelphia, and $1.42 New York. All of these quotations are per 100 lb.

Pipe—The demand for pipe is good. There is more of a demand for small pipe than there was a month ago, and since the prices of galvanized pipe have come down to a more sane level, there has been a fair amount of buying there. The orders for line pipe have not been as heavy as they were two months ago, but the demand for merchant pipe shows a considerable increase.

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	57½%
2½- to 6-in. steel, lap welded	78%	56½%
7- to 12-in. steel, lap welded	76%	54½%

At these discounts the net prices of pipe per foot, in large in lots Pittsburgh, are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.43	4.88	5-in.	32.56	64.38
1-in.	3.57	7.22	6-in.	42.24	83.52
1¼-in.	4.83	9.77	7-in.	57.12	1.08
1½-in.	5.77	11.68	8-in.	60.00	1.13
2-in.	7.77	15.72	9-in.	82.80	1.56
2½-in.	12.87	25.44	10-in.	98.88	1.87
3-in.	16.83	33.27	11-in.	1.11	2.10
4-in.	23.98	47.41	12-in.	1.21	2.31

Sheets—The market for sheets is more or less mixed. There is no doubt that black sheets are considerably stronger, and that the mills are operating at even a higher ratio than a month ago, and there is a very fair business. On the other hand, there has been a sharp cut in the price of galvanized sheets. This does not represent so much the reduction in the price of spelter, although that has been considerable, but it represents a disposition on the part of those mills which have spelter bought or contracted for at much lower prices, to realize something on their contracts. The reduction in the price at the mill amounts to fully $20 per ton, but this has not been followed up at the same ratio by the stores in New York. Of course such a reduction will come later. At the present, however, prices are at such a high level that they seriously restrict consumption. The sheet trade is not so active as the other lines of steel industry, perhaps because the present activity in the steel trade is due to abnormal causes and not especial activity in the building trade. It is probable, however, that the sheet business will improve somewhat a little later. The following quotations are for large lots of sheets f.o.b. Pittsburgh and small lots in stone; New York.

	Cents per Pound — Large lots Pittsburgh		Warehouse delivery New York	
	Black	Galv.	Black	Galv.
No. 10	1.55	4.50	....	....
No. 12	1.55	4.60	....	....
No. 14	1.60	4.60	....	....
No. 16	1.65	4.70	2.35	5.25
Nos. 18 and 20	1.70	4.85	2.40	5.40
Nos. 22 and 24	1.75	4.95	2.45	5.55
No. 26	1.80	5.20	2.50	5.75
No. 27	1.85	5.35	2.55	5.85
No. 28	1.90	5.50	2.60	6.00

	Cents per Pound — Large lots Pittsburgh		Warehouse delivery New York	
	Black	Galv.	Black	Galv.
No. 10	1.55	3.50	....	....
No. 12	1.55	3.60	....	....
No. 14	1.60	3.60	....	....
No. 16	1.65	3.70	2.35	5.00
Nos. 18 and 20	1.70	3.85	2.40	5.15
Nos. 22 and 24	1.75	4.05	2.45	5.30
No. 26	1.80	4.20	2.50	5.45
No. 27	1.85	4.35	2.55	5.85
No. 28	1.90	4.50	2.60	6.00

Cast Iron Pipe—There has been no great animation in the pipe market, except that pig iron has imparted a new steadiness to the pipe trade. It will be recalled that last year there was a great deal of scattered buying by the small private companies, who were making extensions. This continued during this year, and some of the larger cities are now in the market, though it cannot be said that the pipe market is especially animated. In New York prices are steady, 6-in. pipe, Class B, being quoted at $22.50 to $23, Class A pipe $23.50 to $24; and the same price applies to gas pipe. In Birmingham, business is active, and quotations f.o.b. yard are as follows: 4-in., $20.50; 6-in. and upward, $18.50. Gas pipe is $1 per ton higher. In Chicago 4-in. pipe is $26; 6- to 12-in., $24; 15-in .and upward, $23.50. There has been a fair amount of bidding in that market.

Steel Sheet Piling—Prices are steady and without change, at $1.55 to $1.60 per 100 lb. f.o.b. Pittsburgh.

Wire—Trade is extremely active, the mills have orders sufficient to carry them well into the fall. Some mills are well assured that they will have no slack time for the remainder of the year. The foreign demand for barbed wire is continuous and insistent. Takings have been large. Prices are somewhat higher, plain and annealed wire being quoted at $1.40, galvanized barbed wire and fence staples, $2.50; painted barbed wire, $1.70; polished fence staples, $1.70. All these quotations are f.o.b. Pittsburgh per 100 lb. and large lots. The discount on woven wire fencing is 69% in carload lots, 68% from list in 1000-rod lots, and list in small lots.

Old Materials—The market is much more active, prices are higher, and in general there is a feeling that real improvement has at last made itself felt. This is evident on every hand, but in particular in steel scrap. In New York the market is broader, prices are from 50c. to $1 per ton higher than last month. In addition, there is quite a fair volume of business ruling. Prices in New York are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$10.00 to $10.25
Pipes and flues	8.75 to 9.25
No. 1 railroad wrought	11.25 to 11.75
	Per Net Ton
Stove plate	$8.75 to $9.00
No. 1 machinery cast	11.75 to 12.25
Wrought turnings	6.50 to 6.75

In the Chicago market there has been some extremely heavy buying by large interests. The Illinois Steel Co. alone has taken at least 20,000 tons of scrap at a price of $11 per gross ton, which represents a considerable advance over last month. The reason for this was the inability of the blast furnaces of the Gary works to keep pace with the open-hearth capacity. This probably will be rectified in a few days, but nevertheless the market has been established on a higher level, and many who are in a position to judge the market think that this higher level will be maintained for some time to come. Quotations in the Chicago market, as stated, are much higher, as follows:

	Per Gross Ton
Heavy-melting steel scrap	$11.25 to $11.50
	Per Net Ton
No. 1 railroad wrought	9.50 to $9.75
No. 2 railroad wrought	9.75 to 10.00
No. 1 cast scrap	9.50 to 10.00
Pipes and flues	7.00 to 7.25
Agricultural malleable	8.75 to 9.00
Railroad malleable	9.50 to 10.00

In the Pittsburgh district the principal item of demand is heavy melting steel scrap, the price of which has advanced from $11.75 to $12.75, and even at the latter figure dealers state that they cannot secure adequate supplies. There is an unusual clamor for this kind of scrap, and it does not look as if it would be satisfied for some time to come. In other lines there is not any special activity, machine shop turnings being slightly lower, owing to the enormous tonnage coming on the market, and railroad malleable showing a gain of 50c. per ton. Quotations in the Pittsburgh district are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$12.75 to $13.00
Rerolling rails	11.50 to 11.75
No. 1 foundry cast	12.00 to 12.25
Old car wheels	11.75 to 12.00
Machine shop turnings	7.50 to 7.75
Railroad malleable	11.00 to 11.25

Chain—Prices are steady and without change, as follows. These prices are per 100 lb., f.o.b. Pittsburgh:

5/16 in.	$7.50	½ and 9/16 in.	$3.00
¼ in.	4.95	5/8 and 11/16 in.	2.90
7/32 in.	3.95	¾ and 13/16 in.	2.80
3/8 in.	3.40	7/8 and 15/16 in.	2.70
11/32 in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
5/16-in. and ¼-in.	$1.50	$2.00
5/16-in. and larger	1.25	1.75

Wire Rope—Business is good, but prices for galvanized rope are considerably higher. Discount off list for galvanized is 40 and 5%; for bright it is 55 and 5; and special brands of bright are sold at 50 and 5. At the above discounts the net price of wire rope at the mills is as follows:

Diameter in Inches	Price per Foot — Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
5/8	0.06	0.07	0.08

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, inculding plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.; Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30c.; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 80c

Merchant Steel—Business is steady, and shows a distinct improvement, and while the advance that was felt to be imminent a month ago has not materialized, it is evident

that the manufacturers themselves are getting more for their product, and it will only be a question of time when the quotations which are for small lots from jobbers' store, and given below, are revised:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	1.85
1½ to 4 in. x ⅜ to 1 in.	1.85
1½ to 4 in. x ¼ to ⅛ in.	2.05
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.85
1 to 6 in. x ⅜ to 1 in.	1.85
1 to 6 in. x ¼ and ⅛	2.00
Rods—⅝ and ½ in.	1.95
Bands—1½ to 6x⅛ in. to No. 8	2.15
Beams and channels—3 to 15 in.	1.90
Angles:	
3 in. x ¼ in. and larger	1.90
3 in. x ⅛ in. and ⅜ in.	2.35
1½ to 2¾ in. x ⅜ in. and thicker	2.00
1½ to 2½ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.15
Tees:	
1½ to 2½x¼ in.	2.05
1½ to 2½x⅛ in.	2.15
3 in. and larger	1.95

Triangle Mesh—The market is steady and the demand shows a slight improvement. Quotations are as follows:

PRICE PER 100 SQ.FT.

Style No.	Cross Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.140	1.48	1.80	1.64	1.96
35	0.109	1.17	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
†43	0.101	1.10	1.34	1.23	1.46

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing—Business is only fair but the market is strong due to the fact that mills rolling these bars are also working on shrapnel bars. Prices are as follows:

Size	Cents per Pound—Mill Shipments Pittsburgh	Cents per Pound—*Warehouse Pittsburgh	Cents per Pound—Delivered from *Warehouse New York
¾-in. and larger	1.25	1.60	2.05 to 2.10
⅝-in.	1.30	1.75	2.10 to 2.15
½-in.	1.45	1.90	2.25 to 2.30
⅜-in.	1.55	2.00	2.35 to 2.40
¼-in.	1.83	2.30	2.70 to 2.75

*Bars from warehouse are cut to desired length without extra charge.

METALS

Copper—Electrolytic copper sustained a break in price during July, both here and abroad, as a result of the further evidence of accumulation in the hands of producers. Small producers who have been accumulating the metal for some time hoping foreign buying would soon be renewed, offered the metal down to 19c. which price was 1½c. less than the ruling price July 1. General opinion indicated that the recent high prices stimulated production considerably beyond requirements and lower levels are anticipated. Much confidence is expressed, however, in a resumption of domestic requirements as a result of large orders for munitions placed in this country. But July was a disappointment to the large producers. As compared with June the month was extremely dull, although there were some sales by large producers at prices ranging from 20c. down to 19c.

Tin—Large imports of tin and an increase in stocks afloat, materially effected the market producing a marked decline in prices during July. Besides the actual amount of business consummated was not nearly as large as dealers had anticipated. Large buying orders did not materialize with the steady decline in prices and dealers were forced to admit that consumers were well supplied for current needs and were holding off waiting further declines before purchasing. At the beginning of July spot tin was held at 41c. while at the close of the month offerings were made as low as 34¾c. Arrivals of tin for July amounted to 3439 tons, while stocks afloat to this country total 5415 tons.

Lead—Dullness ruled in the lead market during most of the month reflected in a slight decline in prices. The metal was steadily offered by outside interests at concessions resulting in prices showing a net decline for the month of only ¼c., indicating that the supply is firmly held. The American Smelting & Refining Co. reduced its price late in the month to 5½c.

Spelter—Irregularity ruled in the market in spelter during July with the closing quotations about 4c. per lb. less than at the beginning of the month. The possibility of the workers in the Joplin section striking produced uneasiness early in the month with the producers reflected in a strong market but after settlement of the difficulty prices declined steadily until the end of the month when spot was quoted at 18¼ to 18½c.

Old Metals—Prices quoted are nominal. The market eased off under pressure of free selling.

	Cents per Lb.
Copper, heavy cut and crucible	17
Copper, heavy and wire	16⅝
Copper, light and bottoms	14½
Heavy machinery comp.	12½
Heavy machinery composition	12½
Brass, heavy	11½
Brass, light	10
No. 1 clean brass turnings	14¼
No. 1 composition turnings	13
Lead, heavy	4⅞
Tea had	4⅛
Zinc scrap	14

MISCELLANEOUS

Sewer Pipe—The demand has decreased and as a result there has been a drop in price, the following discounts being effective: On 3-in. to 24-in., 82% off list; 27- to 30-in., 72%; 30- to 36-in., 67%. At these discounts, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.26
10-in.	0.144	30-in.	1.54
12-in.	0.18	33-in.	2.06
15-in.	0.243	36-in.	2.31

Flue Lining—While the demand for this material is considered fair, a discount of 84% off list is holding firm. At this rate, prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in.	14	$0.056	8½x18-in.	45	$0.144
4½x13-in.	20	0.072	13x13-in.	45	0.136
7½x7½-in.	15	0.064	13x18-in.	57	0.192
8½x8½-in.	18	0.072	18x18-in.	75	0.32
8½x13-in.	28	0.104			

Blue Stone—Dealers report business as being exceedingly dull. Bronx flagging sells at 17c. per sq.ft. and Manhattan 18c. per sq.ft. Curbing prices are steady, 5x16-in. selling at 40c. per lin.ft., and 5x20-in. at 45c. Sewer bottoms 5x5-ft. by 3 in. are quoted at 25c. per sq.ft. Belgian bridging, 5x24-in., sells at 65c. per lin. ft.

Swedish (Norway) Iron—There is a decided shortage of material on hand, and it seems almost impossible to expect any shipments from foreign quarters. Prices have been so elastic that at present quotations have practically been withdrawn.

Railway Ties—A decided inactivity characterizes the market. First-class standard ties 7x9-in. by 8 ft. 6 in. sell at 72c., 6x8-in. by 8 ft. at 60c., these prices being f.o.b. New York.

The Total Wealth of the United States in 1912, according to an estimate just completed by the Census Bureau, was $187,739,000,000. Of this amount $110,000,000,000 is represented by real estate, $16,000,000,000 by railways and their equipment, $4,600,000,000 by street railways, $1,500,000,000 by shipping and canals, $2,100,000,000 by electric light and power stations and $6,100,000,000 by machinery, tools and factories. There has been an enormous increase in wealth since 1904, when the last estimate was made and when the total was $107,000,000,000. The bulletin also gives an estimate of the comparative wealth of the nations based on statistics of 1904. At that time the British Empire, including all its colonial possessions, had an estimated wealth of $108,000,000,000, or substantially the same as the United States. France had $47,000,000,000 and Germany $78,000,000,000.

Drainage of the Everglades in southern Florida has been carried on in a limited way by the state for a number of years, but with results generally unsatisfactory. Part of this has been due to the lack of adequate engineering plans for the conduct of the work, and part has been due to doubts as to the legality of bonds issued by the state to raise money for carrying on the work, which doubts have interfered with the sale of the bonds. The drainage work has hitherto been in charge of a board made up of state officials who hold their positions as members of the board by virtue of their office. A bill is now pending in the Florida legislature which places the control of the Everglades drainage under a commission of three men to be appointed by the Governor, who are to devote their whole time to the work. All the public lands owned within the district which are owned by the state will be transferred to the district and may be sold to raise funds to pay for the work of drainage. The bonds to be issued for the work are limited to a term of 30 years.

RAILWAYS—STEAM AND ELECTRIC

Massachusetts—Springfield St. Ry.—The City Council of Springfield, Mass., has granted a franchise to this company for the construction of an electric railway from East Springfield to Chicopee. R. W. Reynolds, Springfield, is Mgr. Noted July 8.

New York—Buffalo Southern Ry.—This company plans to extend its line from Buffalo St. to Pierce Ave., Hamburg, N. Y. Frederick Wing, Buffalo, is Ch. Engr.

New York—International Ry.—This company has been granted a franchise to construct a special track on Michigan Ave. and Ohio St., Buffalo. J. C. Sheldon, Buffalo, is Pur. Agt. Noted July 29.

New York—New York State Ry.—This company contemplates the extension of its line on Elm St., Utica. B. E. Tilton, Utica, is Gen. Mgr.

New York—Niagara River & Eastern Ry.—This company has applied to the Public Service Commission for permission to construct an electric railway from Lockport to Niagara Falls.

New Jersey—Arthur B. Smith, H. G. Hart, James S. Wheeler and Welsey F. Sinnickson are interested in the construction of an electric railway to connect Salem and Pennsgrove, N. J.

Pennsylvania—Lehigh Valley Transit Co.—Plans are being prepared by this company for laying a second track along Broad St., West Bethlehem, Penn. Thomas Gibson, Allentown, is Pur. Agt.

✚Pennsylvania—Schuylkill Electric Ry.—This company has awarded a contract to the TREXLER CONTRACTING CO., Reading, for the construction of its line over Broad Mountain. The proposed line will connect Pottsville, Frackville and Shenandoah, Penn. Noted June 24.

Pennsylvania—Wilkes-Barre Ry.—The City Council of Wilkes-Barre, Penn., has granted a franchise to this company to construct an electric railway on East North St. from North Main St. to North Pennsylvania Ave. Thomas A. Wright, Wilkes-Barre, is Vice-Pres., Gen. Mgr. and Pur. Agt.

Maryland—Idlewylde Park Ry.—This company has been granted a franchise to construct an electric railway on Regester Ave. from York Rd. to Idlewylde Park, Baltimore. Noted June 24.

Virginia—Virginia Ry. & Power Co.—Plans are being prepared by this company for double-tracking its line on 14th St. from Mayo Bridge to Cary St., Richmond. C. B. Buchanan, Richmond, is Gen. Mgr.

West Virginia—Southern Ry.—This company will double track a section of its Washington Atlantic line. B. Herman, Washington, D. C., is Ch. Engr.

North Carolina—Goldsboro Electric Ry.—Plans are being prepared by this company for the construction of new track in Goldsboro, N. C. E. L. Gentir, Goldsboro, is Secy. and Gen. Mgr.

Florida—The construction of an electric railway in Clearwater, Fla., and vicinity is contemplated by E. W. Parker, Tampa, and associates.

Florida—Work will soon be started on the construction of the proposed electric railway from Brooksville to St. Petersburg, Fla. James Murphy, St. Petersburg, is interested.

Tennessee—The citizens of Alexandria, Tenn., will hold an election to vote on the question of issuing $150,000 in bonds as their contribution toward the construction of an electric railway through DeKalb and Wilson Counties.

Kentucky—Ohio Valley Electric Ry.—Plans are being considered by this company for the construction of an electric railway from Ashland to Russell, Ky.

Ohio—Cleveland Ry.—This company will extend its line on Buckeye Rd. from 116th to 130th St. and its line on Woodland Ave. from 122nd to 130th St., Cleveland. George L. Radcliffe, Cleveland, is Gen. Mgr.

Michigan—Detroit United Ry.—This company plans to start work soon on the extension of its lines into the Fourth Ward, Detroit, Mich. F. W. Brooks, Detroit, is Gen. Mgr.

Michigan—Kalamazoo-Grand Rapids Interurban Ry.—Preliminary arrangements are being made by this company to start work soon on the construction of its proposed railway from Owasso to Bay City, Mich.

Illinois—La Salle County Electric R.R.—This company has submitted plans to the Public Utilities Commission of Illinois for the construction of its proposed electric railway which will connect Ottawa and Mendota, Ill.

Iowa—Minneapolis & St. Louis R.R.—This company plans an expenditure of $100,000 for the improvement of its yards at Marshalltown, Iowa. R. G. Kenly, Minneapolis, Minn., is Ch. Engr.

Iowa—Ottumwa Ry. & Light Co.—This company contemplates the extension of its Court Hill line in Ottumwa, Iowa. Charles E. Fahrney, Ottumwa, is Gen. Mgr.

Kansas—Arkansas Valley Interurban Ry.—This company is reported to be making preliminary arrangements for the extension of its line from Wichita to Salina, Kan. Charles D. Bell, Wichita, is Supt. Noted June 17.

Texas—According to press reports Charles H. Doak, O'Donnell, Tex., is interested in the construction of a railway from Brownfield to Lubbock to connect with the Atchison, Topeka & Santa Fé Ry.

Texas—Northern Texas Traction Co.—This company has been granted a franchise to extend its Summit Ave. line in Ft. Worth. G. H. Clifford is Vice-Pres. and Gen. Mgr.

Texas—Northern Texas Traction Co.—Plans are being considered by this company for the extension of its electric railway on Folsom Ave. and Gordon St., Ft. Worth, Tex. George H. Clifford, Ft. Worth, is Vice-Pres. and Gen. Mgr.

Oklahoma—According to press reports arrangements are being made for the construction of an electric interurban railway to connect Joplin, Mo., and Miami, Tulsa and Collinsville, Okla. J. R. Eldridge and A. G. Ritz, Oklahoma, are interested.

Idaho—Lewiston-Clarkston Transit Co.—Preliminary arrangements are being made by this company for the extension of its lines in Lewiston and Clarkston, Idaho.

California—The Board of Supervising Engineers of San Jose, Calif., will receive bids until Sept. 7 for a franchise to construct an electric railway on Alum Rock Ave.

California—Peninsular Ry.—This company plans to start work soon on the reconstruction of its electric railway from San Jose to Linda Vista, Calif. F. E. Chapin, San Jose, is Gen. Mgr. and Pur. Agt.

California—Tidewater Southern Ry.—Preliminary arrangements are being made by this company for the extension of its line from Modesto through Ceres to Turlock, Calif. J. H. Wallace, Stockton, is Ch. Engr. Noted July 1.

LIGHT, HEAT AND POWER

Westfield, Mass.—Bonds for $25,000 have been voted. The proceeds will be used for the improvement of its electric-light plant and system.

Syracuse, N. Y.—The Globe Malleable Iron & Steel Co. is having plans prepared for the construction of a power plant to be built in connection with its plant.

Avis, Penn.—The Council contemplates the installation of a new street-lighting system.

✚New Orleans, La.—The Board of Port Commissioners has awarded the contract for installing the steam piping in the cotton warehouses, now being constructed, to H. M. MOODY, New Orleans.

Nashville, Tenn.—Plans are being prepared for the installation of a new heating plant in St. Thomas Hospital.

North Chattanooga, Tenn.—Plans are being considered for the installation of a street-lighting system.

✚Soddy, Tenn.—The Richmond Hosiery Mills has awarded the contract for the construction of a power plant in connection with its establishment to the MARK K. WILSON CO., Chattanooga.

Ft. Thomas, Ky.—Plans are being considered by the Highland Film Corporation for the construction of a power plant to cost $30,000.

Smithland, Ky.—J. W. Watters and V. D. Pressnell are interested in the organization of a company which proposes to install an electric-light plant in Smithland.

West Park, Ohio—Bids will be received by W. J. Fetherstone, Clk., Bd. of Education, until noon, Aug. 20, for the installation of a heating system in the Settlement School.

Sparta, Mich.—The citizens have voted to issue $12,000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light plant.

Brookville, Ind.—The Brookville Electric Co. has applied to the Public Utilities Commission for permission to issue $10,000 in bonds, the proceeds of which will be used for the improvement of its power plant.

Milwaukee, Wis.—The Common Council has received the report of Vaughan, Meyer & Sweet, Consult. Engr., on the survey of the street lighting system of Milwaukee, which recommends an expenditure of $1,279,646 in equipment, transmission lines, etc., for an 8500-lamp system. F. G. Simmons is Comr. of Pub. Wks.

Rippey, Iowa—The construction of a municipal electric-light plant is under consideration.

Ellendale, Minn.—Plans are being considered for the installation of an electric-lighting system.

Hardwick, Minn.—Bonds for $5000 have been voted, the proceeds of which will be used for remodeling the municipal electric-light plant.

Rochester, Minn.—According to press reports bids will soon be received for the construction of the proposed municipal electric-light plant. The estimated cost is $110,000.

Netawaka, Kan.—At a recent election bonds for $10,000 were voted. The proceeds will be used for the installation of an electric-light plant. Noted July 8.

Republic, Kan.—Bonds for $6500 have been voted. The proceeds will be used for the installation of an electric-lighting system.

Seward, Neb.—The City Council contemplates an expenditure of $12,000 for the reconstruction of the electric-light plant which was recently destroyed by fire.

Milnor, N. D.—The Council has granted a franchise to D. L. Vail and associates for the construction of an electric-light plant in Milnor.

Galveston, Tex.—The Galveston Gas Co. contemplates an expenditure of $100,000 for the extension of its gas mains and the improvement of its system. F. M. Lege, Jr. is Gen. Mgr.

Holland, Tex.—The City Council has decided to install an electric-lighting system.

Lockhart, Tex.—The Citizens Water Works, Electric Light & Ice Co. has been organized for the purpose of constructing an electric-light plant at Lockhart. E. B. Coopwood is interested.

Royse City, Tex.—The Royse City Ice & Electric Co. has been organized with a capital of $16,000 for the purpose of constructing an electric light plant and ice factory. The incorporators are J. T. Murphy, A. F. Davis and E. C. Murphy.

Strawn, Tex.—The Texas & Pacific Co. plans to lay pipe lines to a number of towns from the natural gas well near Strawn which it recently purchased.

Jones, Okla.—According to press reports an election will soon be held to vote on the question of issuing bonds for the construction of an electric-light plant.

Marshall, Okla.—At a recent election the citizens voted in favor of a bond issue of $25,000. The proceeds will be used for the construction of an electric light plant and a water system.

✚Salt Lake City, Utah—The Caribou Gold Mines Co. has awarded the contract to R. S. LUND, Salt Lake City, for the construction of a hydro-electric plant on Eagle Creek.

Quincy, Calif.—The Board of Supervisors has granted permission to the Great Western Power Co. to erect a transmission line from the Nevis Dam in Big Meadows to the Engels Copper Mine in Lights Cañon, about 35 miles.

Harriston, Ont.—The installation of a hydro-electric system is under consideration.

Milverton, Ont.—The citizens recently voted to install a hydro-electric system.

BRIDGES

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 10, by the Metropolitan Park Commissioners for constructing a concrete bridge at Furnace Brook Parkway, Quincy. John R. Rablin, 20 Beacon St., is Engr.

✚Concord, Mass.—The contract for constructing a bridge across Winnisquam Lake has been awarded to the UNITED CONSTRUCTION CO., Albany, N. Y., at $46,222. Other bids were: Berlin Construction Co., $54,000; Bay State Dredge Co., $53,000; Boston Bridge Co., $47,191.

Lawrence, Mass.—(Official)—Bids will be received until 9:30 a.m., Aug. 16, by the Commissioners of Essex County for rebuilding the Loring St. bridge over the Shawsheen River at the North Andover line.

Worcester, Mass.—The Samuel H. Pitcher Co., Engr., Worcester, Mass., which has been engaged by the city to prepare plans and supervise the construction of the Lake Quinsigamond Bridge, has announced that plans will not be completed before Oct. 1 and bids will probably be asked about one month later. Noted Apr. 29 and July 22.

Woonsocket, R. I.—(Official)—Bids will be received until 7:45 p.m., Aug. 9, by the Board of Aldermen for constructing two reinforced-concrete bridges on Clinton St. Noted June 17.

Hartford, Conn.—Bids will be received until 2 p.m., Aug. 16, by the State Highway Commissioner for the construction of a 35-ft. reinforced-concrete girded bridge over the Blackledge River.

Hartford, Conn.—Bids will be received until 11 a.m., Aug. 10, by the Board of Contract for constructing a concrete bridge with stone facings across Park River, at an estimated cost of $19,000.

★Westport, Conn.—(Official)—Bids will be received by the State Highway Commissioner, Room 27, Capitol Bldg., Hartford, until 2 p.m., Aug. 10, for the construction of a highway bridge over the Saugatuck River at State St., Westport. The estimated cost is $125,000. Noted May 27 and June 10.

Checktowga, N. Y.—(Forks post office)—(Official)—The Delaware, Lackawanna & Western R.R. will build a viaduct at Harlem Ave., at an estimated cost of $400,000. Noted July 29.

Trenton, N. J.—Bids will be received until 2:30 p.m., Aug. 10, by the Board of Chosen Freeholders of Mercer County for the construction of a reinforced-concrete arch over Sanhican Creek at Willow St. Theodore Tobish is County Engr.

Harrisburg, Penn.—It is reported that bids will be received until Aug. 11 by the Commissioners of Dauphin County for rebuilding the concrete bridge over the tracks of the Philadelphia & Reading Ry. at 19th St. Henry W. Gough is County Controller. Noted July 8.

Mercer, Penn.—(Official)—Bids will be received until noon, Aug. 10, by the Commissioners of Mercer County for removing the present plank floor, cleaning and painting the steelwork, and constructing concrete floor on the roadway of the Greenman Bridge, New Hamburg, and the Saw Mill Run Bridge, Stoneboro. Lewis E. Burnside, Grove City, is County Engr. H. C. Comstock is Clk. of Comrs.

Athens, Ga.—(Official)—Bids will be received until Aug. 17 by Tate Wright, Clk., Athens, for new abutments and raising existing piers, containing 21 cu.yd. rubble masonry and 58.6 cu.yd. concrete, two steel spans of 73 ft. each, and one steel span of 105 ft.

Springfield, Ga.—(Official)—Bids will be received until 2 p.m., Sept. 6, by W. H. Cone Ordmay, for the construction of a steel bridge across the Ogeechee River between Effingham and Bulloch Counties. The estimated cost is $4500.

Cocoa, Fla.—C. M. Rogers, Daytona, has been retained to prepare plans for the construction of a concrete bridge 1⅛ miles long across the Indian River.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., Aug. 18, by the Board of Commissioners of Cuyahoga County for steel deck bridge repairs, Report No. 3553. E. G. Krause is Clk. of Comrs. W. A. Stincomb is County Surv.

✚Mansfield, Ohio—The contract for constructing the Orange St. bridge has been awarded to the OHIO CONCRETE SUPPLY CO., Fremont, at $13,333. Noted July 22.

Marietta, Ohio—Bids will be received until 1 p.m., Aug. 17, by the Board of Commissioners of Washington County for the construction of a concrete bridge over Little Hocking Creek near Dunbar, Fairfield County. W. B. Alexander is County Audr.

Steubenville, Ohio—Bids will be received until Aug. 20 by the Board of Commissioners of Jefferson County for the construction of Bridge No. 8 in Smithfield Township, known as the Harpersville Bridge, and for repairing the bridge at the east end of Dillonvale. John L. Means is County Audr.

Ft. Wayne, Ind.—Bids will be received until 10 a.m., Aug. 9, by William Johnson, Audr. of Allen County, for the construction of concrete culverts and the repair of bridges.

Dixon, Ill.—(Official)—Bids will be received until 8 a.m., Aug. 7, by L. B. Neighbour, County Supt. of Highways of Lee County, for reflooring the Grand Detour Bridge between Nachusa Township, Lee County, and Grand Detour Township, Ogle County. The estimated cost is $7900.

Green Bay, Wis.—(Official)—Bids will be received until 10 a.m., Aug. 30, by the Committee of Streets and Bridges for the construction of a Strauss bascule bridge over the East River at Main St. and a swing bridge. The estimated cost is $55,000. A. Braun is City Engr. Noted Mar. 4 and July 22.

✚Adel, Iowa—The contract for the construction of the Brumfield Bridge has been awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, at $4375.

Audubon, Iowa—Bids will be received until 1 p.m., Aug. 9, by the Board of Supervisors of Audubon County for the construction of five concrete culverts and two bulkheads. C. D. Forsbeck is County Engr.

✚Dubuque, Iowa—The Board of Supervisors of Dubuque County has awarded the contract for the construction of 75 concrete bridges and culverts in the county to PAUL N. KINGSLEY, Strawberry Point, at $34,446. Noted July 15.

Ft. Madison, Iowa—The Board of Supervisors of Lee County has rejected all bids for the construction of the Santa Fe Ave. Bridge over Dry Creek, and has decided to have the work done under county supervision. The lowest bid received was $8215.

Richfield, Kan.—At a recent election the citizens voted in favor of issuing $8000 in bonds, the proceeds of which will be used for constructing a bridge over the Cimarron River near here.

Crete, Neb.—According to press reports bids will soon be received for the construction of a 290-ft. steel bridge, the estimated cost of which is $5000.

✚Williston, S. D.—The Board of Commissioners of Williams County has awarded the contract for county bridge construction for one year to M. A. ADAMS & CO., Minneapolis, Minn. Noted July 8.

✚Hardin, Mont.—(Official)—The County Clerk has awarded the contracts for the construction of three bridges, one over Little Big Horn River on the Sarpy Rd. and one over the same stream near Wyola to the SECURITY BRIDGE CO., Billings, at $27,622 and $8450 respectively; bridge over Big Horn River, about 1½ miles northeast of Hardin to J. STOUT, Sheridan, Wyo., at $3798. Noted June 19 and July 15.

Eureka Springs, Ark.—It is reported that the Commissioners of Carroll County contemplate the construction of a new bridge across the White River. The estimated cost is $20,000.

Dallas, Tex.—(Official)—Plans for the new Commerce St. Bridge over the Trinity River will not be ready for bids for two or three months. The estimated cost is $135,000. J. F. Witt is County Engr. Noted July 1 and 8.

Palestine, Tex.—Press reports state that the International & Great Northern Ry. Co. plans to construct a steel viaduct from Spring St. into Reagan Park, at an estimated cost of $7000.

LeHigh, Okla.—Bids will be received until Aug. 14 for constructing seven steel bridges in Coal County. Richard Bunch is County Clk.

✚Tecumseh, Okla.—(Official)—The Board of Commissioners of Pottawatomie County has awarded the contract for the construction of a bridge to the KANSAS CITY BRIDGE CO., Kansas City, Mo., at $5570. Other bidders were: Missouri Bridge & Iron Co., $5872; Vincennes Bridge Co., $5741; Illinois Steel Bridge Co., $5764; Western Bridge Co. (suspension bridge), $4200. B. B. Wyatt is Deputy County Clk.

Tulsa, Okla.—(Official)—Bids will be received until 10 a.m., Aug. 26, by the Board of Commissioners of Tulsa County for the construction of a reinforced-concrete bridge over the Arkansas River. It will consist of 18 arch spans, each 78 ft. between piers. The bridge will have a 30-ft. roadway and two 4-ft. sidewalks. Harrington, Howard & Ash, Kansas City, Mo., is Consult. Engr. Noted July 22 and 29.

✚Seattle, Wash.—(Official)—The contract for the construction of the Duwamish River Bridge has been awarded to the MANHATTAN CONTRACTING CO., Central Bldg., Seattle, at $26,594. Other bidders were: Albien Engineering Co., Seattle, $29,972; Weymouth Construction Co., Seattle, $28,695; Beers Building Co., Portland, $28,888; H. S. Wright, Everett, $32,179; Gerrick & Gerrick, Seattle, $34,993. A. P. Denton is County Engr. Noted July 8.

✚Tacoma, Wash.—(Official)—The contract for the construction of a wooden bridge across the gulch on 34th St. has been awarded to GRAFF & SHELDON, Tacoma, at $10,894. Other bidders were: Batchelor Bros., $12,250; A. Redstrom, $11,758; P. Mauson, $13,495; McHugh Construction Co., $11,709. Noted June 10 and July 15.

Walla Walla, Wash.—G. Cookerly, County Engr., is preparing plans for the construction of a steel bridge over the Walla Walla River at Swegle Crossing. The estimated cost of the work is $18,000.

✚Eugene, Ore.—The contract for the construction of the Coast Fork Bridge between Eugene and Pleasant Hill, has been awarded to the PORTLAND BRIDGE CO., Portland, at $9540. Noted June 3.

Baird, Calif.—The Ross Construction Co., Sacramento, at $28,235, submitted the lowest bid for the construction of a reinforced-concrete bridge about 395 ft long, across the Pit River.

Dunsmuir, Calif.—The lowest bid submitted for the construction of a reinforced-concrete bridge about 532 ft. long, with one arch 180 ft. clear span, and two arches 114 ft. clear span, across the Sacramento River near Dunsmuir, was that of the Pacific Coast Construction Co., Fresno, at $26,922.

Placerville, Calif.—The Board of Supervisors of Eldorado County will soon receive bids for the construction of a steel and concrete bridge across the American River at Coloma. Plans have been prepared by A. V. Saph, San Francisco.

Redding, Calif.—Bids will be received by the Board of Supervisors of Shasta County until Aug. 21 for the construction of a wood and steel bridge across the Sacramento River at Kennett, the estimated cost of which is $20,000.

Santa Rosa, Calif.—Bids will be received until Aug. 12 by the Board of Supervisors of Sonoma County for the construction of two reinforced-concrete bridges, one on the Alexander Valley Rd., and the other on the Petaluma Rd. W. W. Felt, Jr., is County Clk.

✚Santa Barbara, Calif.—MUNOZ & MUNOZ, Central Bldg., Los Angeles, at $18,973, has been awarded the contract for the construction of a reinforced-concrete bridge.

✚Shawenegan Falls, Que.—The Municipal Council has awarded the contract for the construction of a bridge over the Shawenegan River to B. J. TREPANIER, 24 Niverville St., Three Rivers. A sub-contract will be awarded for the steel superstructure. The estimated cost of the structure is $15,000.

Swan River, Man.—A bylaw has been passed authorizing the issue of $22,000 in bonds to be used for the construction of several bridges. Joseph Armstrong is Municipal Secy.

✚Vancouver, B. C.—The City Council has awarded the contract for repairs to the Connaught Bridge to W. GREENLESS, 407 Cordova St., W., Vancouver, at $7491. All previous contracts rescinded. Noted June 24 and July 8.

WATER SUPPLY—IRRIGATION

Anson, Maine—At a recent election the citizens voted in favor of installing a water system. The estimated cost is $120,000. Noted Feb. 4.

Dalton, Mass.—Press reports state that the Dalton Fire District plans to lay between 7000 and 8000 ft. of 4- and 6-in. water pipe.

New Britain, Conn.—The Water Board will purchase about 3000-ft. of 6-in. water pipe.

★Windsor, Conn.—(Official)—Bids will be received until 2 p.m., Aug. 20, by the Board of Commissioners of the Windsor Fire District for the construction of a water system.

✚Albany, N. Y.—The Bureau of Water Supply has awarded the contract for furnishing c.-i. pipe to the WARREN FOUNDRY & MACHINE CO., New York, N. Y., at $23.50 per ton.

✚Binghamton, N. Y.—The Board of Water Commissioners has awarded the contract for the construction of a reservoir on South Mountain to BARILLY & INGERSOLL at $20,032. Other bidders were: Frank Stento, $42,598; H. R. Porterfield, $21,700; H. B. Sproul, $29,203; W. H. Genegan, $23,869; J. F. Leary Co., $31,165; J. W. Gummo, $33,768; Williams & Richardson, $33,503. Noted July 8.

✚Hilton, N. Y.—(Official)—The following contracts have been awarded for the construction of a water system: Pipe and specials, UNITED STATES CAST IRON PIPE & FOUNDRY CO.; valves and hydrants, LUDLOW VALVE CO.; elevated water tank, CHICAGO BRIDGE & IRON WORKS; general contract, M. APPLEGATE & SON, Bradford, Penn. H. C. Kittredge, Rochester, is Engr. Noted July 8.

Keansburg, N. J.—The Keansburg Water Co. plans to extend its system throughout Keansburg and the vicinity.

Newark, N. J.—The New Jersey Water Supply Commission has been denied the application by the city for the exclusive use of the waters of the Wanaque River as a water supply. Noted Apr. 29.

Perth Amboy, N. J.—The Board of Water Commissioners plans to extend the new water main from Ernston Hill to the Raritan River. Noted June 17.

✚Clayton, Del.—The contract for the construction of water and sewer systems and a disposal plant has been awarded to the AMBLER-DAVIS CO., 1016 Harrison Bldg., Philadelphia, Penn., at $18,284. Herbert W. Hatton, Equitable Bldg., Wilmington, Del., is Engr. Noted July 8.

✚Baltimore, Md.—The Board of Awards has awarded the contract for furnishing and erecting a 20,000,000-gal. centrifugal pump for the Eastern Pumping Station to the WESTINGHOUSE ELECTRIC & MACHINE CO., Pittsburgh, Penn., at $12,538. Noted June 24 and July 8.

South Boston, Va.—An election will be held Aug. 10 to vote on the question of issuing $125,000 in bonds. The proceeds will be used for the installation of a water system, making extensions to the sewer system and for paving. W. L. Penick is Mayor. Noted Feb. 11.

Keyser, W. Va.—An election will be held Aug. 10 to vote on the question of issuing $35,000 in bonds. Part of the proceeds will be used for the extension of the water system.

Atlanta, Ga.—An election will soon be held to vote on the question of issuing $750,000 in bonds. The proceeds will be used for the construction of a water system.

Baconton, Ga.—The city will hold an election Aug. 19 to vote on the question of issuing $12,000 in bonds. Part of the proceeds will be used for the construction of a water system.

Dunedin, Fla.—An election will be held Sept. 4 to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a water system.

Ocala, Fla.—Plans are being prepared by Twombly & Henney, Engrs., 55 Liberty St., New York, N. Y., for the improvement of the water and sewer system. Bonds for $155,000 have been sold for this purpose. Noted June 24 and July 15.

Houma, La.—Calvin Wurzlow, Mayor, will soon call an election to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a purification plant.

Madisonville, Tenn.—The city plans the construction of a water system. W. H. McCroskey, Mayor, is interested.

✚Covington, Ky.—The contract for pipe trenching and back filling for 10,950-ft. of 24-in. water mains has been awarded to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., Chicago, Ill., at $92,000. Noted July 15.

✚Cincinnati, Ohio—(Official)—The contract for laying water mains in connection with the high pressure fire service has been awarded to the KIRCHNER CONSTRUCTION CO., Cincinnati, at $13,555. Other bidders were: M. J. McCarthy, $14,427; T. P. Strach, $16,621; H. V. Conneley, $17,252; M. F. Quill, $18,047. J. A. Heller is Supt. of Water Works. Noted July 15.

Marion, Ohio—The Marion Water Co. has been granted permission to issue $12,500 in bonds. The proceeds will be used for the extension of the water mains.

South Newburg, Ohio—(Newburg post office)—Bids will be received until noon, Aug. 14, by H. H. Bohning, Clk., for the construction of water mains in Windfall and Broadway Ave. Ralph Hecker, Cleveland, is Engr. Noted July 15.

Miller, Ind.—An election will be held Aug. 12 to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the construction of a water system. W. J. Dalton, Gary, is Engr. Noted July 22.

Kenosha, Wis.—The Board of Water Commissioners has awarded the contract for constructing 10,000-ft. of 42-in. c.-i. water intake main, a submerged intake crib and a 24-in. main to GEORGE A. GREEN, Green Bay. B. C. Brennan is City Engr. Noted July 15 and June 24.

Oshkosh, Wis.—Henry A. Allen, Consult. Engr., Chicago, Ill., has been retained by the city to prepare plans and supervise the construction of the new filtration plant. Noted Feb. 18.

Charlton, Iowa—It is reported that the contract for the construction of a water system will soon be awarded. The estimated cost is $80,000. M. G. Hall, Centerville, is Engr. Noted Oct. 1 and July 1.

✚Council Bluffs, Iowa—The contract for the installation of an 8,000,000-gal. triple expansion pump for the water system has been awarded to the MERKLE-HINES MACHINE CO., Kansas City, Mo.

✚Grinnell, Iowa—The contract for making extensions to the water system has been awarded to BASH & JANES, Joplin, Mo., at $9736. Charles P. Chase, Clinton, is Engr. Noted July 8.

✚Keota, Iowa—The contract for the construction of a water system has been awarded to BASH & JANES, Joplin, Mo. Charles P. Chase, Clinton, is Engr. Noted July 8 and 15.

Broken Bow, Neb.—The City Council has rejected all bids received July 3 for the construction of a pumping plant for the water system and an electric-light plant. They will advertise for new bids. Charles F. Sturtevant, Holdredge, is Engr. Noted June 10 and 24.

Spearville, Kan.—At a recent election the citizens voted to issue $25,000 in bonds. The proceeds will be used for the construction of a water system.

✚Canova, S. D.—The contract for the construction of a water system has been awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa. Bonds for $9500 have been sold for this purpose. Noted June 3 and July 1.

✚Sioux Falls, S. D.—(Official)—Contracts have been awarded to the BEISCH SULZER BROS. DIESEL ENGINE CO., St. Louis, Mo., at $33,955, for oil engines, pumps and generators; CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $12,190, for the construction of a 350,000 gal. elevated tank; FANEBUST BROS., Sioux Falls, at $16,181, for the construction of a 1,200,000-gal. reinforced-concrete reservoir. Noted July 15.

Hamilton, Mont.—The construction of a municipal water system and a distributing system is being considered by the City Council.

✚Wibaux, Mont.—(Official)—The contract for the construction of a water system has been awarded to the HOGGART CONSTRUCTION CO., Fargo, N. D., at $24,500. C. H. Green, Spokane, Wash., is Consult. Engr. Noted July 1 and 22.

St. Louis, Mo.—Bids will be received by the Board of Public Service until Aug. 13 for the reconstruction of the Compton Hill Reservoir. The estimated cost is $400,000. E. E. Wall is Water Comr. Noted July 8.

Beaumont, Tex.—Bids will be received until 10 a.m., Aug. 7, by J. G. Sutten, City Secy., for the construction of a 36-in. c.-i. pipe across the Neches River, canal intake and other improvements in connection with the canal extension for the water-works. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., is Engr. Noted July 1 and 29.

Floresville, Tex.—The city will purchase 5000-ft. of c.-i. pipe for the purpose of extending the water mains to the gin and oil mill section.

Lockhart, Tex.—Bids will soon be received by the Citizens Water Works, Electric-Light & Ice Co., for the construction of a water system and electric-light plant. The estimated cost is $45,000. W. B. Swearingen is Pres.

Mission, Tex.—A franchise has been granted to the Mission Ice Light & Water Co. for the construction of a water works plant. J. A. Sadler is Pres.

Grove, Okla.—An election will be held Aug. 9 to vote on the question of issuing $10,000 in bonds. Part of the proceeds will be used for extending the water system.

Marshall, Okla.—At a recent election the citizens voted to issue $25,000 in bonds, the proceeds of which will be used for the construction of a water system and an electric-light plant.

Tulsa, Okla.—A proposition has been submitted to the City Commissioners by E. M. Kerling, Tulsa, D. A. Coulter and J. B. Marvin, Franfort, Ind., for the construction of a water system.

Rogerson, Idaho—An application has been filed with the Public Utilities Commission, Boise, by W. R. McMillan and John McRae for the installation of a water system. The estimated cost is $15,000.

St. Maries, Idaho—(Official)—At a recent election the citizens voted to issue $37,000 in bonds. The proceeds will be used for the improving of the water system. Charles R. Schulte is Clk. Noted July 22.

Salt Lake City, Utah—Plans are being prepared for the construction of a new dam for the Hatchtown irrigation project. The estimated cost is $100,000. G. Stirling and J. L. Reed are Engrs.

Vernal, Utah—It is reported that the city has decided not to extend the water system at the present time. The work will probably be done some time next year. George A. Davis is City Recdr. Noted July 15.

Aberdeen, Wash.—An election will soon be held to vote on the question of issuing $500,000 in bonds. The proceeds will be used for the construction of the Wynoochee water system. Noted June 10.

Kirkland, Wash.—The City Council has rejected all bids for the construction of a water system in District No. 32. It has been decided to do the work under the direction of the City Engineer.

Prosser, Wash.—The Benton County Commissioners have approved the plans of the Horse Heaven Land Owner's Association for the construction of an irrigation district and will hold an election Aug. 7. The district will comprise about 500,000 acres lying in Benton, Kakima and Klickitat Counties. About $200,000 has already been expended in preliminary engineering and surveying work conducted by the Klickitat Irrigation Co. C. H. Hinman, North Yakima, Ira W. Prosser, Prosser, and John Sumner, Patterson, are Dir.

Seattle, Wash.—The City Council has instructed the Board of Public Works to advertise for bids for laying water mains in East 54th St. and Bradner Pl. L. B. Young is Chn. of Bd.

Seattle, Wash.—The citizens plan to issue $3,000,000 in bonds. The proceeds will be used for the extension of the water system.

†Linn, Ore.—The contract for the construction of waterworks in West Linn has been awarded to the OREGON ENGINEERING & CONSTRUCTION CO., Oregon City.

Salem, Ore.—The Public Utilities Commission has granted permission to the Rouge River Public Service Corporation to construct an irrigation system to irrigate 12,640 acres of land in the vicinity of Grants Pass. Estimated cost, $135,000.

†Oakdale, Calif.—The Oakdale Irrigation District has awarded the contract for extensions to the irrigation system to SHAW & BATCHER, Sacramento. The estimated cost is $100,000. Noted Apr. 29 and June 17.

Oceanside, Calif.—An election will be held Aug. 16 to vote on the question of issuing $20,000 in bonds. Part of the proceeds will be used for improving the municipal-water system.

Stockton, Calif.—The Pacific Gas & Electric Co. will install water mains, including an 8-in. fire-protection main in California St. The estimated cost is $32,000.

†Levis, Que.—The contract for the construction of a storage dam on the St. Maurice River has been awarded to JOSEPH GOSSELIN, at $1,300,000.

Montreal, Que.—It is reported that the Board of Control has decided to engage local engineers to prepare plans for the construction of a filtration plant to increase the daily capacity from 50,000 to 100,000 gal. instead of the New York engineers recently appointed. Noted July 15 and June 17.

Collingwood, Ont.—The Town Council will improve its water system. The estimated cost is $15,000. J. H. Duncan is Clk.

†Guelph, Ont.—The contract for the construction of a pumping station in connection with the extension of the water system has been awarded to BRENNAN & HOLLINGWORTH, Hamilton, at $8600. Noted July 22.

†Assiniboia, Sask.—The contract for furnishing the city with 500 ton of c.-i. pipe has been awarded to the CANADIAN PIPE CO., at about $19,000.

SEWERS

†Boston, Mass.—Bids were received July 28 by the Metropolitan Water and Sewerage Board for the construction of (a) Section No. 105, (b) Section No. 106 of the high level sewer, South Metropolitan System in Needham and Wellesley from HUGH NAWN CONTRACTING CO., Roxbury, (a) $29,655 (awarded contract), (b) $27,912 (awarded contract); George M. Bryne, (a) $37,272, (b) $43,315; Coleman Bros., (a) $44,230, (b) $37,651; Michael Meehan, (a) $52,187, (b) $44,605; Henry Spinach Contracting Co., (a) $52,493, (b) $43,630; M. Russo & Son, (a) $54,162, (b) $53,047; Bruno & Petitti, (a) $58,385, (b) $61,685. Noted July 22.

Boston, Mass.—Bids will be received until noon, Aug. 6, by Edward F. Murphy, Comr. of Pub. Wks., for the construction of sewers and drains in Columbia Park, Favre St. and private land, Dorchester, Royal Rd., Dorchester and Hyde Park.

Huntington, Mass.—(Official)—Bids have been received for the construction of approximately 4000 ft. of 8-, 10-, 12- and 15-in. sewers from A. Williams & Co., Boston, $3599; James L. Bryner Boston, $3392; Way & Cellilli, Springfield, $3338; Hampden Contracting Co., Springfield, $3121; Cordner & Montague, Springfield, $2851; William Orlando, Belchertown, $2764; Frank D. O'Connor, Holyoke, $2636. James L. Tighe is Consult. Engr.

Marlboro, Mass.—The City Council contemplates the construction of sewers in various streets. The estimated cost is $20,000. Thomas H. O'Halloran is Mayor.

Norwood, Mass.—(Official)—The city will construct sewers, water-works, underground municipal light system and pave various streets. The estimated cost is $100,000. G. A. Smith is Engr.

Salem, Mass.—(Official)—The city will construct sewers in Cleveland Rd., Loring Ave. and connecting streets by day labor. The estimated cost is $7000 Noted July 29

Hockanum, Conn—Bids will be received until 8 pm., Aug. 12, by the Sewer Committee for the construction of approximately 9300 ft. of 12-, 10- and 8-in. sewers. C. Henry Olmsted is Engr.

★Albany, N. Y.—(Official)—Bids will be received by the Board of Contract and Supply until 3 p.m., Sept. 7, for the construction of sewage pumping stations. Isadore Wachman is Secy. of Bd.

Binghamton, N. Y.—Surveys are being made by the Engineering Bureau for the construction of a sewer system. Arthur La Roche is Asst. City Engr.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Aug. 17, by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Maspeth, Clark, Perrk and Maurice Ave. and in Rust and Grand St.

†Yonkers, N. Y.—It is reported that the contract for the construction of house and storm sewers has been awarded to JOSEPH CIANCULLI & SON, Yonkers, at $14,700.

†Camden, N. J.—The contract for the construction of sewers in Chelton Ave., Fairview and North Sixth St. has been awarded to F. A. WARD. Noted July 8.

†Maywood, N. J.—(Official)—The contract for the construction of a sanitary sewer system has been awarded to MARTIN-MILLER & PIZZIMENTI, Caldwell, at $87,911. Other bids were: Frisco Construction Co., Newark, $94,131; Di Napolio & Toriella Construction Co., $96,458; E. C. Humphrey, $127,280. Noted July 8.

Newark, N. J.—Bids were received July 29 by the city for the construction of the Bound Brook and Frelinghuysen Ave. sewer from O'Gara & Maguire, Newark, $33,175; Averill Mathews Co., Montclair, $36,377; John W. Heller, Newark, $37,956; P. L. Braunwith, $38,164; Frisco Construction Co., Newark, $39,295; Harrison & Craig, Newark, $44,930; P. D'Anato, Newark, $53,194; Charles Ippolito, Montclair, $76,661. Noted July 22.

Pitman, N. J.—An election will soon be held to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Remington & Vosbury, Camden, is Engr. Noted June 10.

Pleasantville, N. J.—(Official)—Plans are being prepared by Remington & Vosbury, Engr., Camden, for the construction of a sewer system and a sewage-disposal plant. The estimated cost is $100,000.

Exter, Penn.—(Pittston post-office)—The lowest bid submitted for the construction of sewers in Penn, Lincoln and Grant St. was that of Joseph Banks, Wilkes-Barre, at $7000.

Franklin, Penn.—The Borough Council contemplates the construction of a sanitary sewer system.

Clayton, Del.—See item under "Water, Supply-Irrigation."

†Baltimore, Md.—(Official)—The contract for the construction of Section No. 1 of the Jenkins Run Trunk Drain, Storm Water Contract No. 45 has been awarded to SLACK & SLACK, Baltimore, at $81,742. Other bids were. Whiting Turner Construction Co., $84,999; C. B. Clark & Co., $88,418; Ryan and Reilley, $90,069; Continental Contracting Co., $92,404; Janon Fisher, $93,434. Noted July 8.

†Ocean City, Md.—The contract for the construction of a sewage pumping station, clarification tank, intercepting and branch sewers has been awarded to the BOYLE-LOHMULLER CONSTRUCTION CO., Baltimore, at $14,296. Noted July 15.

Harrisonburg, Va.—The city will construct an Imhoff sewage-disposal plant and filter beds. The estimated cost is $6000. J. H. Downing is Mayor.

South Boston, Va.—An election will be held Aug. 10 to vote on the question of issuing $100,000 in bonds. Part of the proceeds will be used for the construction of sewers. Plans have been prepared by Anderson & Christie, Charlotte, N. C. W. I. Penick is Mayor.

Keyser, W. Va.—An election will be held Aug. 10 to vote on the question of issuing $35,000 in bonds. Part of the proceeds will be used for the construction sewers in bed of New Creek.

†Clinton, N. C.—The contract for the construction of a sewer system has been awarded to C. C. JACOBS, Durham. Noted Apr. 1.

Chester, S. C.—The city has been instructed by the State Board of Health to take definite action by Sept. 12 toward the installation of a sanitary sewer system.

★Greenville, S. C.—(Official)—Bids will be received until 4 p.m., Aug. 10, by the city for the construction of sanitary sewers. C. P. Ballenger is City Engr. Noted Apr. 29.

Atlanta, Ga.—An election will be held to vote on the question of issuing $1,000,000 for the construction of sewers and sewage-disposal plants.

Dunedin, Fla.—An election will be held Sept. 4 to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a sewer system and a sewage-disposal plant.

St. Petersburg, Fla.—(Official)—The city will not issue bonds for the construction of a sanitary sewer system, as was noted in the issue of July 22.

Florence, Ala.—The city contemplates the construction of approximately three miles of sanitary sewers. N. M. Striplin is Mayor.

Meriden, Miss.—At a recent election the citizens voted to issue $10,000 in bonds. The proceeds will be used for the construction of sanitary sewers. Noted July 8.

La Fayette, La.—The city contemplates the construction of a sewer system. The estimated cost is $100,000.

†Cheviot, Ohio—(Cincinnati post office)—(Official)—Contracts for sewer construction have been awarded to JAMES McLAIN, Newport, Ky., for constructing a trunk drain in Powells Track and to A. BOERESON, Cincinnati, for constructing a trunk drain in the Schlenker and Reubel property. Noted July 22.

†Cincinnati, Ohio—The contract for the construction of the Poague Ave. sewer has been awarded to RUNCK PROS., at $5701.

Cincinnati, Ohio—Bids will be received until noon, Aug. 11, by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in McDowell and Strafer St. and in Columbia Ave.

†Cincinnati, Ohio—The Board of Control has awarded contracts for sewer construction to JOHN B. McLANE, at $14,977, for constructing sewers in Clinton Springs and Glenmore St.; CONNOLLY CONSTRUCTION CO., at $4625, for constructing sewers in Carll Rd.; M. J. CONNOLLY, JR., at $5226, for constructing sewers in Kirby Rd. Noted July 15.

★Cleveland, Ohio—(Official)—Bids will be received by the Commissioner of Purchases and Supplies until noon, Aug. 18, for the construction of a concrete open channel outfall sewer, approximately 630 ft. long and a submerged outfall pipe line about 3600 ft. long.

Columbus, Ohio—Bids will be received until Aug. 17 by the Director of Public Service for the construction of sewers in various streets.

Port Clinton, Ohio—The City Council contemplates constructing an addition to the sewer system in the South Side. The estimated cost is $44,000.

Lafayette, Ind.—Preliminary plans are being prepared for the construction of storm and sanitary sewers. H. B. Obersch, Jr., is City Engr.

✚Markle, Ind.—(Official)—The contract for the construction of a sewer system has been awarded to THOMAS B. McGOVERN, Wabash, at $11,510. Other bids were: J. Hipskind, Wabash, $11,721; R. P. Nipp, Flora, Ill., $12,120; Keefer & Bailey, Huntington, $12,313; Martin Koch, Huntington, $12,570; T. B. House, Franklin, $12,693. Noted July 15.

Chrisman, Ill.—Plans are being prepared by George A. Fair for the construction of concrete sewers. The estimated cost is $9500. Frank McCuddy is City Clk. Noted July 29.

East St. Louis, Ill.—Plans are being prepared by E. F. Harper, City Engr., for the construction of the Bowman Ave. sewer from First to 16th St.

Green Bay, Wis.—Bids will be received until 10 a.m., Aug. 17, by the Committee on Sewers of the Common Council for the construction of a steel outlet for the terminus of the Cedar St. sewer to the Fox River.

Oshkosh, Wis.—Bids will be received until 2 p.m., Aug. 6, by the Board of Public Works for the construction of sewers in the Eighth Ward.

West Allis, Wis.—Bids will be received until noon, Aug. 9, by the Acting Board of Public Works for the construction of storm sewers in Mitchell St. from 51st St. to 63rd Ave.

✚Whitewater, Wis.—The contract for the construction of sewers has been awarded to A. M. LANIGON, Waukegan, Ill., at $23,900. Noted July 29.

✚Cherokee, Iowa—(Official)—The contract for the construction of approximately 3½ miles of sanitary sewers has been awarded to the MOORE-SEIG CONSTRUCTION CO., Waterloo, at $24,380. Other bids were: George M. King, Des Moines, $26,993; William C. Fraser, St. Paul, Minn., $25,398. Noted July 29.

Clinton, Iowa—It is reported that the City Council contemplates the construction of sewers in the Fourth Ward. The estimated cost is $80,000.

Spencer, Iowa—(Official)—Bids will be received until Aug. 6 by E. O'Keeffe, City Engr., for the construction of approximately 6000 ft. of 8-, 10- and 12-in. sewers.

Sandstone, Minn.—(Official)—All bids received July 26 for the construction of approximately 9025 ft. of 8- and 6-in. sewers have been rejected. New bids will be received until Aug. 23 by C. Rudisukle, Village Recdr. Noted July 22.

✚St. Paul, Minn.—(Official)—The contract for the construction of storm and sanitary sewers in various streets to be included in part of the Smelling-Como sewer system has been awarded to THOMSON BROS., St. Paul, at $236,000. Noted July 22.

Topeka, Kan.—Plans have been prepared and bids will soon be received by A. R. Young, City Engr., for the construction of sewers in District No. 45. Noted May 13.

✚Topeka, Kan.—The contract for the construction of the East Side sewer has been awarded to JAMES A. PRINGEL, at $125,834. Noted July 29.

Crofton, Neb.—The city contemplates the construction of a sewer system and a septic tank. The estimated cost is $8000. J. D. Clair Smith, Hartington, is Engr.

✚Omaha, Neb.—The contract for the construction of storm sewers from 36th Ave. to the junction connecting with the Everett Pl. sewer in Fontenelle Park has been awarded to JAMES JENSON, Omaha, at $39,646.

Omaha, Neb.—The State Legislature has authorized the City Council to issue bonds for $1,000,000. The bonds will be isued in five annual installments of $200,000 each. The proceeds will be used for the construction of a sewer system.

Wausa, Neb.—An election will be held Sept. 3 to vote on the question of isuing $20,000 in bonds. The proceeds will be used for the construction of a sewer system and a sewage-disposal plant. Noted June 24.

✚Wisner, Neb.—(Official)—The contract for the construction of a sewer system has been awarded to ARTHUR A. DABSON CO., Lincoln, at $14,510. Noted July 15.

Centerville, S. D.—At a recent election the citizens voted to issue $27,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted July 15.

Poplar Bluffs, Mo.—(Official)—Bids will be received until 7:30 p.m., Aug. 16, by H. H. Wilcox, City Clk., for the construction of sewers in Sanitary Sewer District No. 2. The estimated cost is $17,426. Edward C. Thomas is City Engr.

✚Springfield, Mo.—The contract has been awarded to PLUMNER-ADAMS CO., Springfield, at $9153, for the construction of sewers in District No. 22, Section No. 3.

St. Louis, Mo.—Bids will be received until noon, Aug. 6, by the Board of Public Service for the construction of the Florissant Ave. public sewer extensions, Sections Nos. 1 and 2.

Argenta, Ark.—Bids will be received until 10 a.m., Aug. 11, by the city for two 14,000-gal. sewerage pumps, two 60-hp. slow-speed motors and other equipment. J. P. Faucette is Mayor.

Amarillo, Tex.—The city contemplates constructing sewers estimated to cost $10,000. J. M. Beasley is Mayor.

Beeville, Tex.—Bids will be received until Aug. 20 by W. G. Gayle, City Clk., for extending the sewer system. Bartlett & Ranney, San Antonio, is Engr. Noted July 22.

✚Drumright, Okla.—The contract for the construction of lateral sewers has been awarded to the TOLBERT CONSTRUCTION CO., at $28,000. Noted Feb. 25.

Sand Springs, Okla.—(Official)—Bids will be received until Sept. 1 by A. F. Shultz, City Clk., for the construction of 1½ miles of sewers. The estimated cost is $4000. M. P. Lartimer is City Engr. Noted July 22.

Steamboat Springs, Colo.—Bids will be received until Aug. 9 by the Town Council for the construction of a sanitary sewer system. The estimated cost is $62,000. B. G. Bradley is Town Engr. Noted July 1.

Deming, N. M.—An election will be held to vote on the question of issuing bonds for $30,000, the proceeds of which will be used for the construction of septic tanks and for extending the sewer system.

Richfield, Utah—The city contemplates issuing bonds, the proceeds of which will be used for the construction of a sewer system.

Burns, Ore.—(Official)—At a recent election the citizens defeated the question of issuing bonds for $40,000, the proceeds of which was to have been used for the construction of a sewer system. Noted July 22.

Portland, Ore.—Bids were received by the City Council for the construction of the East Alder St. sewer from 135 ft. west of East Second St. to the east harbor line of the Willamette River from the Alexis Contracting Co., Portland, at $21,106, and Giebisch & Joplin, Portland, at $25,970.

✚Corning, Calif.—The contract has been awarded to A. C. HAMLIN, San José, at $15,381, for sewer construction.

✚Los Angeles, Calif.—The contract for the construction of sewers in Temple St. from Oxford Ave. to Kingsley Drive has been awarded to JOSEPH CHUTUK, at $39,116. Noted July 29.

Marysville, Calif.—An election will be held to vote on the question of issuing $18,000 in bonds. The proceeds will be used for the construction of sewers in the Ellis Lake District. Noted Apr. 8.

✚Sacramento, Calif.—The contract for the construction of Unit No. 4 of the trunk sewer in Montclair Ave. has been awarded to JAMES KENNEDY, Fargo, N. D., at $37,280.

✚Santa Barbara, Calif.—The contract for sewer construction has been awarded to EGGART & UKOVISIA, Los Angeles, at $20,717.

✚Stockton, Calif.—The contract for the construction of sanitary sewers in the McCloud addition has been awarded to A. TEICHERT & SON, Sacramento, at $6968.

London, Ont.—Bids will soon be received for the construction of sewers in Waterloo St. H. A. Brazier is Engr.

Stratford, Ont.—The city contemplates the construction of sewers in Front, Mile, High and Railway Ave. A. B. Manson is Engr.

Thorold, Ont.—Bids will soon be received for the construction of sewers in various streets. D. J. Munro is City Clk. Noted June 3.

Welland, Ont.—The Town Council will construct sewers in Seeley St. D. J. Black is Engr.

GARBAGE

New York, N. Y.—The following are the lowest bids submitted to J. T. Fetherston, Comr. of Street Cleaning, for the removal of snow and ice during the winter season of 1915-1916: Borough of Manhattan: Celestino De Marco, 239 East 17th St., 37c. per cu.yd.; Borough of Bronx: Thomas Cummins Contractor Co., 444 East 69th St., 30c. per cu.yd.; Borough of Brooklyn: Rosenthal Engineering & Contracting Co., 165 Hooper St., Brooklyn, 35.3c. per cu.yd.; Manhattan Borough, Dists. 1, 2 and 3: Snow Contracting Co., 1 Madison Ave., 43c. per cu.yd.; Brooklyn Borough, Dists. 1, 2, 3 and 4: Parsons & Langtry Co., 30 Church St., New York, lowest on Dist. 1, 34.7c. per cu.yd.; Rosenthal Engineering & Contracting Co., 165 Hooper St., Brooklyn, lowest on Dists. 2 and 3, 28c. and 31c. per cu.yd.; Thomas Callandrello, 425 Malbone St., only bidder on Dist. 4, at 34c. per cu.yd.

Fort Wayne, Ind.—The Board of Public Works contemplates the construction of a garbage incinerating plant, also the construction of collection sub-stations.

STREETS AND ROADS

✚Boston, Mass.—A contract for furnishing approximately 200,000 gal. of emulsified road oil has been awarded to the STANDARD OIL CO., at $0.0367 per gal.

✚Boston, Mass.—The contract for paving Birch St. from Penfield St. to Dudley Ave., West Roxbury, has been awarded to A. H. ARCHER, at $7223.

Boston, Mass.—(Official)—Bids will be received until noon, Aug. 9, by the Commissioner of Public Works for paving Glendower Rd. from Kittredge to Poplar St., West Roxbury District.

Boston, Mass.—Bids will be received until Aug. 10 by the State Highway Commission for constructing 11,000 lin.ft. of road in Northampton. Arthur W. Dean, 15 Ashburton Pl., is Ch. Engr.

✚Boston, Mass.—The contract for constructing 4600 lin.ft. of state road in Andover has been awarded to D. J. SHEEHAN, Lynn, at $10,905. Noted July 22.

Northampton, Mass.—Bids will be received until noon, Aug. 10, by the State Highway Commission, Boston, for constructing 11,000 lin.ft. of state highway.

Hartford, Conn.—Bids will be received by Charles J. Bennett, State Highway Comr., until 2 p.m., Aug. 16, for road work as follows: North Haven Township, about 4950 lin.ft. macadam on the Mt. Carmel-North Haven Rd.; Southington Township, about 6200 lin.ft. 2-in. bituminous macadam resurfacing on the Misery Brook Rd.; Waterford Township, about 5937 lin.ft. native stone macadam on the Hartford-New London Turnpike; Durham Township, about 4940 lin.ft. bituminous macadam resurfacing on the Middlefield Rd.; Killingly Township, about 2950 lin.ft. concrete, amiesite, warrenite or bituminous concrete resurfacting on Main St., Danielson.

✚Hartford, Conn.—Contracts for State Road work have been awarded by the State Highway Commissioner as follows: Plainfield Township, about 6875 lin.ft. gravel, to JOHN ARBORIA, 172 Congress St., New Haven, at $8000. Vernon Township, a section of bituminous native stone macadam on Vernon Ave., to A. D. BRIDGE'S SONS, INC., Hazardsville, at $4843. Roxbury Township, a section of graded road to JOHN DE MICHIEL & BRO., Torrington, at approximately $16,311. Killingworth Township, a section of gravel road to LOUIS LONGHI & BRO., Torrington, at $6000. Bridgeport City, a section of warrenite pavement to the WARREN BROS. CO., Boston, Mass., at $8529.

✚New Haven, Conn.—The contract for paving Exchange St. with sheet asphalt has been awarded to the C. W. BLAKESLEE SONS CO., New Haven, at $14,298.

✚**Albany, N. Y.**—The contract for improving Glendale and Highland Ave. has been awarded to GLEASON & DAVITT, at $17,757.

✚**Albany, N. Y.**—The contract for grading a portion of the eastern section of Beaver Park has been awarded to MARTIN MURRAY & CO., at $30,743.

✚**Albany, N. Y.**—The contract for improving Bancker, Mercer, Peyster and Warren St. and Main, Park and Ryckmann Ave. has been awarded to GLEASON & DAVITT, Troy, at $95,618.

Buffalo, N. Y.—The Common Council has voted to pave Tifft St. with brick, at an estimated cost of $25,000.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received July 28 by L. H. Pounds, Borough Pres., for improving Skillman St. from Park to Myrtle Ave., Myrtle Ave. from Franklin to Nostrand Ave., Nostrand Ave. from Stockton St. to 75 ft. south of Willoughby Ave. and Vernon Ave. from Nostrand to Marcy Ave. as follows: Rosenthal Engineering Co., $26,446; Barber Asphalt Co., $26,519; Sicilian Asphalt Co., $25,203; Borough Asphalt Co., $24,059; McFarlane Contracting Co., $27,288. Noted July 22.

New York, N. Y.—(Borough of Brooklyn)—Bids will be received until 11 a.m., Aug. 11, by L. H. Pounds, Borough Pres., for improving Jamaica Ave. from Broadway to the borough line.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—Contracts have been awarded for improving portions of 38th St., 62nd St., West End Ave., and 95th St., 36th St. and Amsterdam Ave. to the ASPHALT CONSTRUCTION CO., 50 Church St. at $66,386, $17,923, $12,017 and $153,877 respectively. Noted July 8.

★**Scarsdale, N. Y.**—(Official)—Bids will be received until 8 p.m., Aug. 25, by the Board of Trustees for constructing the Popham Rd. John R. Ross is Clk.

✚**Yonkers, N. Y.**—The contract for regulating, grading and improving Fortfield Ave. has been awarded to JOHN O. WESTON, at $23,450.

Cranford, N. J.—Press reports state that the Township Committee plans to pave Springfield Ave. with macadam and construct concrete curbs and gutters.

✚**East Orange, N. J.**—(Official)—The contract for grading, curbing and paving Girard and Linden Ave. with telford pavement has been awarded to JOHN S. GEIGER'S SONS, Newark, N. J. Noted July 22.

Hackensack, N. J.—(Official)—Bids will be received until 1 p.m., Aug. 16, by the Board of Chosen Freeholders of Bergen County for repairing Oakland Ave. from Page's Corner to the Passaic County line.

✚**Haddonfield, N. J.**—A contract for resurfacing a number of street has been awarded to MANWARING & CUMMINGS, Philadelphia, at $16,700.

✚**Hoboken, N. J.**—(Official)—The contract for improving a portion of the concrete walks in Elysian Park has been awarded to the O'REILLY CONTRACTING CO., 90 Neptune Ave., Jersey City. Noted July 22.

✚**Hoboken, N. J.**—(Official)—The contract for grading and repaving portions of Third, Fourth, Fifth, Sixth, Jefferson, Adams, Hudson, River, and 14th St. and Willow Ave. has been awarded to the UVALDE ASPHALT PAVING CO., at $42,040. Noted July 22.

✚**Kearney, N. J.**—The contract for paving Stewart Ave. from Schuyler Ave. to Argyle Pl. has been awarded to VAN KEUREN & SON, at $17,183.

✚**Morristown, N. J.**—The Board of Freeholders has awarded contracts for the improvement of the Denville-Dover Rd., in two sections Denville-Rockaway Section, to the WELDON CONTRACTING CO., $21,181; Rockaway-Dover Section, to OSBORNE & MARSEILLIS CO., $31,993.

South Amboy, N. J.—Plans are being prepared by the City Engineer for paving Main St. from Broadway to Thompson St.

Trenton, N. J.—The Board of City Commissioners plans to improve Ellsworth Ave. by paving with bituminous concrete on a 5-in. concrete foundation.

Brackenridge, Penn.—At a recent election the citizens voted in favor of issuing $35,000 in bonds, the proceeds of which will be used for street paving.

Camp Hill, Penn.—Press reports state that the citizens voted in favor of issuing $30,000 in bonds, the proceeds of which will be used for paving Mark St.

Greensburg, Penn.—(Official)—All bids received July 23 for improving sections of the highway in Mt. Pleasant Township were rejected. New bids will be readvertised. Noted July 22.

Philadelphia, Penn.—(Official)—Bids will be received until Aug. 10 by the Department of Public Works for improving a number of streets.

★**Wilmington, Del.**—(Official)—Bids will be received until 4 p.m., Aug. 10, by the Board of Directors of the Street and Sewer Department for improving a number of streets. L. V. Christy is Secy.

Baltimore, Md.—The Paving Committee has voted to pave Hillen, Fayette Gold St. with sheet asphalt.

Clintonwood, Va.—The Commissioners of Dickinson County contemplate an expenditure of $48,000 for the construction of 30 miles of road.

Isle of Wight, Va.—The Commissioners of Isle of Wight County contemplate constructing 35 miles of road, at an estimated cost of $15,000.

✚★**Norfolk, Va.**—(Official)—A contract for paving certain streets has been awarded to LOUIS LAUSON, Norfolk, at $32,992. Other bids were: Atlantic Bitulithic Co., $40,112; F. J. McGuinn, $40,062; Continental Public Works Co., $35,128; Central Contracting Co., $35,127. Noted July 15.

South Boston, Va.—An election will be held Aug. 10 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for street improvements.

Piedmont, W Va.—Press reports state that an election will soon be held to vote on the question of issuing $36,000 in bonds, the proceeds of which will be used for improving streets.

Lillington, N. C.—An election will be held Aug. 7 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for constructing 20 miles of road in Harnett County.

Cartersville, Ga.—The date of holding an election has been postponed from July 17 to Aug. 14 to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for street paving. Noted July 1.

Folkston, Ga.—The Commissioners of Charlton County contemplate constructing 20 miles of road, at an estimated cost of $20,000.

Apalachicola, Fla.—The Commissioners of Franklin County plan to construct approximately 25 miles of road.

Kissimmee, Fla.—An election will be held Aug. 7 to vote on the question of issuing $45,000 in bonds, the proceeds of which will be used for paving six streets.

✚**Sarasota, Fla.**—(Official)—Contracts have been awarded for paving portions of Palm St. to the SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, Ala., and Strawberry St. to the GEORGIA ENGINEERING CO., Augusta, Ga. Noted July 15.

New Orleans, La.—A. G. Thomas, New Orleans, at $6.95 per cu.yd. was the lowest bidder for constructing a highway from the Rigolets to Chef Menteur. Noted July 15.

Jasper, Tenn.—At a recent election the Commissioners of Marion County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for constructing a section of the Dixie Highway.

Linden, Tenn.—The Commissioners of Perry County contemplate constructing 100 miles of road, at an estimated cost of $100,000.

Hartford, Ky.—The Commissioners of Ohio County contemplate constructing three miles of macadam road. W. C. Blankenship is Clk.

Hazard, Ky.—An election will be held Aug. 11 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for constructing concrete sidewalks.

Paducah, Ky.—According to press reports the Commissioners of McCracken County will improve Glandville Rd.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 12, by Philip Fosdick, Dir. Pub. Ser., for improving Magnolia St. from Plum to Elm St. Noted July 15.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Aug. 12, by Philip Fosdick, Dir. Pub. Ser., for improving Wade St. Noted July 15.

Columbus, Ohio—Bids will be received until Aug. 17 by the Director of Public Service for paving a number of streets.

Columbus, Ohio—Bids will be received until 10 a.m., Aug. 23, by John Scott, Clk. of the Bd. of County Comrs. of Franklin County, for improving roads in various townships.

Columbus, Ohio—(Official)—Bids will be received until 2 p.m., Aug. 6, by Clinton Cowen, State Highway Comr., for improving a number of roads in various counties.

✚**West Jefferson, Ohio**—A contract for paving a number of streets has been awarded to the ANDREWS PAVING CO., Hamilton, at $40,000. Noted June 17 and July 15.

Greencastle, Ind.—(Official)—Bids will be received until 2 p.m., Sept. 4, by the Commissioners of Putnam County for constructing a gravel road on line between Putnam and Parke Counties.

Portland, Ind.—(Official)—No contract has been awarded for improving Commerce and Ship St. as the Mayor vetoed the improvement resolutions. Noted July 15.

✚**Warsaw, Ind.**—The contract for constructing the Gwin Rd. has been awarded to T. E. SPARKS, Kirkland, at $19,500.

Mt. Carmel, Ill.—Bids will be received until Aug. 12 for constructing 20 miles of gravel roads in District No. 3. E. E. Seiles is Clk.

✚**Green Bay, Wis.**—(Official)—A contract for paving various streets has been awarded to WILLIAM PICKETT, 1200 Doty St., Green Bay, at $10,400. Other bids were: Murphy Construction Co., $11,400; Carlin Bros., $10,977. Noted June 10.

Neenah, Wis.—Bids will be received until 2 p.m., Aug. 23, by the Board of Public Works for paving Walnut St. from East Wisconsin to Doty Ave.

West Allis, Wis.—Press reports state that the City Council plans to pave Greenfield, National and Mitchell St.

✚**Clinton, Iowa**—The contract for repaving Fourth St. from Fifth to 10th St. has been awarded to THOMAS CAREY & SONS, Clinton, at $27,917.

✚**Grundy Center, Iowa**—A contract for paving a number of streets with asphaltic concrete has been awarded to the FORD PAVING CO., Cedar Rapids.

Idagrove, Iowa—The citizens will soon vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for street paving.

✚**La Mars, Iowa**—A contract for paving 43 blocks with concrete has been awarded to A. R. LAKE.

✚**Spencer, Iowa**—(Official)—A contract for laying 70,000 sq.yd. of pavement has been awarded to the BRYANT PAVING CO., Waterloo, at $12,000. Noted July 15.

✚**Duluth, Minn.**—The contract for paving 12th Ave. has been awarded to OLSEN & JOHNSON, Duluth.

Northfield, Minn.—An election will be held Aug. 12 to vote on the question of issuing $19,000 in bonds, part of the proceeds will be used for street paving.

✚**Hutchinson, Kan.**—The contract for improving Main St. has been awarded to the STOMEY-MACKEY CONSTRUCTION CO., at approximately $30,000.

✚**Omaha, Neb.**—The contract for paving 24th St. from Vinton to A St. and 13th St. from Mason to Howard St. with brick has been awarded to the JAMES J. PARKS CO., South Omaha, at $52,000.

✚**York, Neb.**—A contract for paving in Districts No. 10 and 11 has been awarded to ABEL & ROBERTS, Lincoln, at $36,500.

Jefferson City, Mo.—Press reports state that the citizens of Cole County contemplate voting on the question of issuing $100,000 in bonds, the proceeds of which will be used for improving roads.

Kirkwood, Mo.—The city contemplates constructing two miles of streets, at an estimated cost of $14,000.

Poplar Bluff, Mo.—Bids will be received until Aug. 16 by E. C. Thomas, City Engr., for constructing 65,000 sq.yd. of concrete pavement, at an estimated cost of $10,000.

Springfield, Mo.—Plans are being prepared for the construction of approximately 100 miles of roads in Greene County.

✚**Pine Bluff, Ark.**—The contract for paving Laurel and 15th Ave. has been awarded to the KAW PAVING CO., Kansas City, at $43,202.

Amarillo, Tex.—A special election will soon be held to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for street improvements.

✚**Ft. Worth, Tex.**—The contract for paving Richmond Ave. from Evans to New York Ave. has been awarded to the ROACH-MANIGAN PAVING CO.

Higgins, Tex.—At a recent election the citizens of Lipscomb County voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for constructing and improving roads.

Orange, Tex.—At a recent election the citizens voted in favor of issuing $25,000 in bonds, the proceeds of which will be used for improving streets. Noted June 24.

✚**Ogden, Utah**—A contract for paving in District No. 117 has been awarded to the J. P. O'NEIL CONSTRUCTION CO., Ogden, at $4163.

✚**Elko, Nev.**—The Commissioners of Elko County have awarded a contract for the construction of the Secret Pass Rd., 16 miles from Halleck, to the SMITH-SPRAGGIN CO., Salt Lake City, Utah, at $9980.

Miami, Ariz.—Press reports state that an election will be held Aug. 12 to vote on the question of issuing $50,000 in bonds, part of the proceeds will be used for improving county highways in Gilla County.

✚**Bellingham, Wash.**—The contract for paving the Lake Rd. has been awarded to L. H. LICH, at $41,236.

Colfax, Wash.—Bids will be received until 11 a.m., Aug. 7, by the Commissioners of Whitman County for draining, bridging and grading 11½ miles of Permanent Highway between Colfax and Pullman. John M. McCaw is County Engr.

✚**Seattle, Wash.**—The contract for paving Horton St. has been awarded to D. H. TRAPHAGEN, Alaska Bldg., Seattle, at $20,555.

Stevenson, Wash.—At a recent election the citizens of Skamania County voted in favor of issuing $210,000 in bonds, the proceeds of which will be used for improving and constructing roads.

Tacoma, Wash.—Bids will be received until Aug. 14 by the Commissioners of Pierce County for improving Permanent Highway No. 5-A.

Walla Walla, Wash.—(Official)—Bids will be received until Aug. 10 by M. A. Power, City Clk., for paving Rose and 12th St.

Gresham, Ore.—The City Council will soon award the contract for hardsurfacing Roberts Ave. and Second St. The estimated cost of the work is $12,000.

Marshfield, Ore.—According to press reports, the City Council has voted to improve Pine St., at an estimated cost of $10,000.

Oswego, Ore.—Bids will be received until Aug. 5 by H. W. Koehler, City Recdr., for grading and hard surfacing Front St.

✚**Eureka, Calif.**—The City Trustees have awarded a contract for street improvement to ELSMORE & JACOBS, at $6939.

✚**Gridley, Calif.**—(Official)—A contract for paving a number of streets has been awarded to the CLARKE & HENERY CONSTRUCTION CO., Sacramento, at $52,609.

✚**Ontario, Calif.**—The contract for paving A St. has been awarded to L. G. GARNSEY, Los Angeles, at $23,000.

✚**Richmond, Calif.**—The City Council has awarded a contract for paving North Tenth St. with bitulithic to JOHN WORD, at $14,251.

Sacramento, Calif—(Official)—Bids were received July 26 by the State Highway Commission for constructing roads in various Counties as follows: (a) Colusa County, Division 3, Route 7, Section A. (b) Monterey County, Division 5, Route 2, Section D, (c) San Luis Obispo County, Division 5, Route 2, Section B, (d) Marin County, Division 5, Route 1, Section A, (e) Santa Barbara County, Division 5, Route 2, Section D: Clark & Henry Construction Co., Sacramento, (a) $5779; A. W. & C. H. Gorrell, San Francisco, (b) $72,848, (c) $70,864; W. A. Dontanville, Salines, (b) $69,064, (c) $74,492; Hoffmann & McLaren, Oakland, (b) $63,395; Lou G. Hare, Salines, (b) $76,527; Highway Paving & Construction Co., San Francisco, (b) $54,507; Twohy Bros., San Francisco, (b) $85,437, (c) $82,791, (d) $52,084; Tieslau Bros., San Francisco, (b) $73,966, (c) $74,802, (d) $28,883, (e) $71,802; Petersen & Grier, San Francisco, (b) $66,733, (c) $78,191; F. Rolandi, San Frencisco, (c) $72,651, (d) $29,088, (e) $73,685; Leigh G. Garnsey, Los Angeles, (c) $76,362, (e) $67,959; Bent Bros., Los Angeles, (c) $72,495; Pacific Coast Construction Co., Fresno, (c) $69,396; Bates Borland & Ayer, Oakland, (c) $75,079, (d) $26,849, (e) $61,564; Seabury B. Peterson, San Francisco, (c) $74,748; John D. Marsh, Bakersfield, (c) $67,809; Palmer & McBryde, San Francisco, (d) $25,489; Daniel O'Day Co., San Francisco, (d) $29,201; Baver & Beard, Two Rivers, (d) $27,421; W. J. Schmidt, Berkeley, (d) $34,872; Erickson & Petterson, Inc., San Francisco, (d) $34,290; Spring Construction Co., Berkeley, (d) $30,858; Sunset Construction Co., San Francisco, (d) $31,552; Fairbanks & Baechtel, Willits, (d) $29,961, (b) $69,919; R. B. Markle, Jr., San Francisco, (d) $21,255; Theodore Manetas, San Francisco, (d) $26,504; J. H. Falconer, Pinole, (d) $23,498; G. W. Conners, Eureka, (d) $26,885, (e) $63,005; O'Brein Bros., Martinez, (d) $28,220; Contra Costa Construction Co., Berkeley, (d) $27,532; P. H. Hoare, Oakland, (d) $24,476; C. [illegible] Hudson, Los Angeles, (e) $54,586; Maurice Ryan & Son, El [illegible]rio, (e) $65,293; Richmon Rothwell, Los Angeles, (e) $6[illegible] Rohert Sherer, Los Angeles, (e) $58,148; Occidental C[illegible]ruction Co., Los Angeles, (e) $69,655; F. L. Smith Co., [illegible]a, (e) $59,466; F. H. Green, Eureka, (e) $59,994; E. J. H[illegible] Santa Margarita, (e) $61,831. Noted July 15.

✚**Vernon, Calif.**—The contract for paving Alamac[illegible]st from 38th to 56th St. has been awarded to the LOS [illegible]GELES PAVING CO., Hellman Bldg., Los Angeles.

Halifax, N. S.—Press reports state that the Ci[illegible] Council plans to construct concrete sidewalks on Morris St[illegible]d Victoria Rd. F. W. Doane is City Engr.

INDUSTRIAL WORKS

✚**Cambridge, Mass.**—The contract for the constr[illegible]ion of a three-story, 100x100-ft. brick factory at Haywood [illegible]d Main St. for J. L. Hammett has been awarded to J. M. & C. J. BUCKLEY, 164 Federal St., Boston, Mass. Densmore & Le Clear, 88 Broad St., Boston, Mass., is Arch.

Holyoke, Mass.—The Yoerk Tire & Rubber Co. will build a garage on Chestnut St. The estimated cost is $18,000. G. P. Alderman & Co. is Arch.

✚**Worcester, Mass.**—The Wright Wire Co., Hammond St., has awarded the contract for the construction of a four-story brick addition to its plant to E. D. WARD. The estimated cost is $25,000.

✚**Hartford, Conn.**—The Whitney Mfg. Co., Bartholomew Ave., has awarded the contract for the construction of a four-story, 60x64-ft. reinforced-concrete addition to its plant to the J. H. CROZIER CO., 721 Main St. William A. Boring, 32 Broadway, New York, N. Y., is Arch. Noted May 6.

New Haven, Conn.—The New Haven Pulp & Board Co. will build a brick building on Railroad Ave., estimated to cost $70,000.

New Haven, Conn.—Cowles Folman, 677 State St., will build a three-story, 60x75-ft. brick and steel garage and repair shop at State and Trumbull St. R. W. Foote, 424 Chamber of Commerce Bldg., is Arch.

Providence, R. I.—Simeon Klein, Ashburton St., will build a 2½-story, 46x100-ft. brick smelting plant.

Buffalo, N. Y.—The Dold Packing Co. will build a five-story, 100x160-ft. reinforced-concrete addition to its plant at William, Howard and Detroit St., to cost $200,000.

✚**Jamestown, N. Y.**—The Gurney Ball Bearing Co. has awarded the contract for the construction of its plant to the LACKAWANNA BRIDGE CO., Buffalo, N. Y.

New York, N. Y.—(Borough of Brooklyn)—P. H. Connor will build a three-story, 100x128-ft. brick and concrete factory and warehouse on 18th St., to cost about $100,000. William Higginson, 13 Park Row (Borough of Manhattan), is Arch.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—The TURNER CONSTRUCTION CO., 11 Broadway (Borough of Manhattan), has been awarded the contract for the construction of a seven-story, 100x168-ft. reinforced-concrete addition to the plant of A. Schrader's Son, Inc., Vanderbilt and Atlantic Ave. Timmis & Chapman is Arch.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—The TURNER CONSTRUCTION CO., 11 Broadway (Borough of Manhattan), has been awarded the contract for the construction of an 11-story, 100x134x177-ft. reinforced-concrete factory at Flatbush Ave. and Concord St. for the Sperry Gyroscope Co. Frank J. Helmle, 190 Montague St., is Arch. Noted July 1.

New York, N. Y.—(Borough of Queens)—The Texas Oil Co., 17 Battery Pl. (Borough of Manhattan), will build a plant at Marsh St. and Dutchkills Creek to cost $100,000.

Syracuse, N. Y.—(Official)—Bids are being received by Edward A. Howard & Son, Arch., 503 The Bastable, for the construction of a $20,000 building for the Fleischmann Co. Noted July 29.

✚**Troy, N. Y.**—The DEVERALL-SPENCER CO., Baltimore, Md., has been awarded the contract for the construction of a five-story concrete mill and a one-story warehouse for the Boutwell Milling & Grain Co. on South River St. The estimated cost is $70,000.

✚**Butler, N. J.**—(Official)—Bids will soon be received for the construction of a three-story brick factory for the Pequanoc Rubber Co. The estimated cost is $25,000. Oakley Houman, 6 Park Ave., Paterson, N. J., is Arch. Noted July 1.

East Orange, N. J.—The Crocker & Wheeler Co. plans to build a 62x201-ft. concrete addition to its plant, to cost $18,000.

Newark, N. J.—J. Wiss & Sons Co., 31 Littleton Ave., will build a four-story, 50x75-ft. addition to its plant to cost about $15,000. Frederick A. Phelps is Arch.

Plainfield, N. J.—The Plainfield Storage Warehouse Co. will build a storage warehouse on East Third St. The estimated cost is $30,000.

Philadelphia, Penn.—The Eynon Evans Mfg. Co. will build a three-story, 50x120-ft. foundry and a 51x120-ft. machine shop at 17th and Allegheny St.

✚**Philadelphia, Penn.**—The contract for the construction of a five-story, 35x140-ft. brick and steel factory at 503 Market St. for the Haverford Cycle Club has been awarded to the PHILIP HAIBACH CONTRACTING CO., 26th and Thompson St. Peuckert & Wunder, 310 Chestnut St., is Arch.

✚**Pittsburgh, Penn.**—D. T. RIFFLE has been awarded the contract for the construction of a six-story, 54x110-ft. reinforced-concrete warehouse on Penn Ave. for the George S. Dougherty Co. Noted July 22.

✚**Baltimore, Md.**—The Terminal Freezing & Heating Co. has awarded the contract for the construction of a six-story, 41x142-ft. cold-storage plant at 412-14 South Eutaw St. to the CONSOLIDATED ENGINEERING CO. The estimated cost is $20,000. Noted June 17.

✚**Baltimore, Md.**—The Bartlett Haywood Co., South Charles St., has awarded the contract for the construction of an

addition to its plant to J. HENRY SMITH. The estimated cost is $100,000.

Sparrows Point, Md.—(Baltimore post office)—The Maryland Steel Co. will soon start work on improvements to its marine department to cost about $1,000,000.

Asheville, N. C.—The Azalea Woodworking Co., whose plant was recently destroyed by fire at a loss of $40,000, will be rebuilt. W. D. Riddick is Pres.

Richmond, Va.—The Albermarle Paper Co. will build a factory on Tredegar St., to cost $13,750.

Richmond, Va.—The Baldwin & Brown Co., Richmond, Va., will build a six-story warehouse on 17th St.

✚**New Orleans, La.**—(Official)—The Board of Port Commissioners has awarded the contract for the construction of a reinforced-concrete wharfhouse and warehouse to JACOB A. ZIMMERMAN, 18 East 41st St., New York, N. Y., at $1,109,000. Ford, Bacon & Davis, 921 Canal St., is Arch. Noted July 1.

Knoxville, Tenn.—The Ross & Republic Marble Co. will rebuild its plant which was recently destroyed by fire at a loss of $75,000. A. M. Glasgow is Vice-Pres. and Gen. Mgr.

✚**Cleveland, Ohio**—The Cleveland Ry. Co. has awarded the contract for the construction of a one-story, 100x111-ft. reinforced-concrete and brick repair shop to the W. I. THOMPSON & SONS CO. The estimated cost is $35,000.

✚**Fostoria, Ohio**—The contract for the construction of a packing plant for the Fostoria Provision Co., 106½ Main St., has been awarded to J. J. MYER, Lorain, Ohio, at $31,975. Noted July 15.

Toledo, Ohio—(Official)—Thomas F. Huber, Arch., is preparing preliminary plans for the construction of a building for the American Plumbers Supply Co., to cost approximately $100,000.

Toledo, Ohio—The Herbrand Co. will build a $20,000 addition to its plant.

✚**Anderson, Ind.**—The contract for the construction of two additions to the plant of the Remy Electric Co. has been awarded to ESHELMAN & SON. Estimated cost, $13,000.

Indianapolis, Ind.—The San-I-Deal Paper Bottle Co., recently incorporated with a capital of $300,000, will build a factory. G. K. Jeffries, Gen. Supt. of the Terre Haute, Indianapolis & Eastern Traction Co., is Pres.

Detroit, Mich.—The Northway Motor Co. will build an addition to its plant at 855-7 West Hancock St., to cost $40,000.

Detroit, Mich.—The Mazer Cigar Mfg. Co. plans the construction of a four-story, 31x103-ft. addition to its plant at Grandy and Theodore St. Jacob Mazer is Secy. and Treas.

✚**Detroit, Mich.**—The contract for the construction of a three-story addition to the plant of the Hudson Motor Car Co. has been awarded to the BRYANT & DETWILER CO. Albert Kahn, 58 La Fayette Ave. is Arch. Noted July 15.

Grand Haven, Mich.—The Ottawa Leather Co. plans the construction of a 110x180-ft. addition.

✚**Ionia, Mich.**—The Ypsilanti Reed Co. has awarded the contract to HERMAN & SON, Grand Rapids, Mich., for the construction of a five-story, 110x165-ft. factory.

Lansing, Mich.—The Reo Motor Car Co. will build three additions to its plant, to cost approximately $250,000.

Saginaw, Mich.—(Official)—The Jackson-Church-Wilcox Co. will soon start work on the construction of a $25,000 addition to its plant.

Chicago, Ill.—Swift & Co., Chicago, Ill., will build a seven-story storage plant at the Union Stock Yards, to cost $125,000. B. H. Jielson is Arch.

Chicago, Ill.—The Chicago Title & Trust Co., 69 West Washington St., will build a seven-story reinforced-concrete warehouse at 411 West Ontario St., to cost $150,000. Paul Gerhardt, 64 West Randolph St., is Arch.

Chicago, Ill.—The Hanson & Van Winkle Co., Newark, N. J., and Clinton and Madison St., Chicago, Ill., will build a three-story, 50x70-ft. brick factory at 838 West Erie St., to cost $20,000. Huehl, Schmidt & Holmes, 154 West Randolph St., is Arch.

Chicago, Ill.—D. J. Hauptman, 1307 City Hall Sq. Bldg., will build a 75x125-ft. machine shop at 1744 North Kolmar Ave., to cost $14,000. D. S. Clafter, 64 West Randolph St., is Arch.

Chicago, Ill.—The Cudahy Packing Co. will build a two-story plant at 9101-11 Baltimore Ave., to cost $120,000. R. F. Newberry is Arch.

Chicago, Ill.—The Harder Storage & Van Co. will build an eight-story brick warehouse at 3948 Calumet Ave., to cost $25,000. S. H. Dunford is Arch.

Granite City, Ill.—The National Enameling & Stamping Co. plans to spend $200,000 for improvements to its plant. Thomas K. Niedringhaus is Vice-Pres.

Milwaukee, Wis.—The Northwestern R.R. Co. will build a grain elevator on Kinnickinnic Ave., to cost $500,000.

Monticello, Wis.—Edward Witter & Bros. plans the construction of a four-story, 50x100-ft. reinforced-concrete cold-storage warehouse at the Illinois Central R.R. tracks. The estimated cost is $32,500.

Des Moines, Iowa—Bids will soon be received by the Clemens Auto Co. for the construction of a four-story, reinforced-concrete warehouse at Tenth and Mulberry St., to cost about $40,000.

✚**Omaha, Neb.**—BUSK & WIND has been awarded the contract for the construction of a five-story, 66x132-ft. brick and concrete building at 15th and Jones St. for the Western Newspaper Union, at $90,000. John McDonald, Omaha National Bank Bldg., is Arch.

✚**Kansas City, Mo.**—GARDNER BROS. has been awarded the contract for the construction of a two-story, 49x90-ft. brick warehouse at 1905-7 Wyandotte St. for A. B. Stevens. The estimated cost is $17,000.

El Paso, Tex.—The Riverside Cement Co. plans the construction of a $300,000 plant.

Houston, Tex.—The Walker-Smith Grocery Co. plans the construction of a two-story, 100x100-ft. reinforced-concrete warehouse at Wood and Willow St., to cost $30,000.

San Antonio, Tex.—The International & Great Northern R.R. Co. has purchased a 108-acre tract on which it will build shops and roundhouses. The estimated cost is $500,000.

Seattle, Wash.—Bids will be reecived about Sept. 1 for the construction of a five-story, 72x242-ft. building to cost $500,000, or an eight-story building of the same dimensions to cost $850,000, for the Times Publishing Co. Bebb and Gould, Denny Bldg., is Arch.

Spokane, Wash.—Bids will soon be received for the construction of a $75,000 machinery warehouse at Monroe and Lincoln St. for the International Harvester Co.

Spokane, Wash.—The McClintock Trunkey Co., Washington and Stevens St., will build a five-story, concrete building on Stevens St., to cost $50,000.

Tacoma, Wash.—The Friddle Motor Car Co. will build a plant, estimated to cost $50,000. James A. Friddle is Pres.

✚**Roseburg, Ore.**—The contract for the construction of a saw-mill for Kendall Bros., Pittsburg, Penn., has been awarded to the ALLIS-CHALMERS CO., Milwaukee, Wis. The estimated cost is $350,000. Noted May 20.

✚**Los Angeles, Calif.**—The Hollywood Fireproof Storage Co., incorporated by C. E. Toberman, has awarded the contract for the construction of a two- and three-story, 55x140-ft. reinforced-concrete warehouse on Highland Ave. to the F. O. ENGSTRUM CO. E. P. Parcher is Arch. John F. Blee, 509 Union League Bldg., is Engr. Noted Mar. 11.

✚**San Fernando, Calif.**—(Official)—The contract for the construction of a lemon packing plant for the San Fernando Lemon Association has been awarded to H. T. KEMP, Pasadena, Calif., at $17,650. Other bids were: F. O. Engstrum Co., $20,540; Hall Martin Co., $26,766; John Simpson Co., $26,300; Alta Planing Mill Co., $20,985; William Loesch, $21,500. H. A. Hamm, 100 North Daisy Ave., La Manda Park, Calif., is Arch. Noted July 1.

FEDERAL GOVERNMENT WORK

Riprap—New London, Conn.—Bids will be received until 2 p.m., Aug. 10, at the U. S. Engineer Office, for furnishing and placing about 2000 long tons of riprap for the repair of breakwaters at Duck Island Harbor and at the mouth of the Housatonic River, Conn.

Post Office—Gouverneur, N. Y.—Bids will be received by James A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Sept. 19, for the construction of a post office at Gouverneur.

Riprap—New York, N. Y.—The following bids were received by the Lighthouse Inspector, Tompkinsville, for furnishing about 2700 tons riprap at the Coney Island Light Station. Bouker Contracting Co., $2.75 ton; W. J. Scanlon Co., $1.80; O'Brien Bros., Inc., $2.50; W. H. C. Russell, $1.43; R. M. Brown, $1.97; A. M. Hazell, $1.65; A. R. Morrison, $1.80; C. R. Simpson, $1.60. Noted July 8.

Scow and Dredge—New York, N. Y.—All bids received for constructing the scow and dredge "General Gillespie," have been rejected. Noted May 6 and June 17.

✚**Dredging**—New York, N. Y.—(Borough of Queens)—The contract for dredging in Newton Creek, has been awarded to P. SANFORD ROSS, INC., at 26½c. per cu.yd. Noted June 3 and July 29.

★**Stone**—Cold Spring, N. J.—Bids will be received until 11 a.m., Aug. 20, at the U. S. Engineer Office, Old Federal Bldg., Wilmington, Del., for repairs to Cold Spring Inlet.

Storehouse—Indianhead, Md.—Bids will be received until 11 a.m., Aug. 28, by William M. Smith, Act. Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a corrugated steel storehouse at the naval proving ground.

Underground Cable and Motor Apparatus—Washington, D. C.—Bids will be received by the Commissioners, District of Columbia until 2 p.m., Aug. 24, for furnishing underground signal and telephone cable, and until Aug. 9, for furnishing four automobiles. Specifications may be obtained of the Purchasing Officer, 320 District Bldg.

✚**Building**—Radio, Va.—The contract for constructing a brick office building has been awarded to W. E. MOONEY, Washington, D. C., at $6966. Noted Apr. 22.

Post Office—Charlotte, N. C.—All bids received for the construction, of the U. S. post office and court house at Charlotte, have been rejected. Noted May 27 and July 29.

Bulkhead—Charleston, S. C.—Bids will be received by the Light House Inspector, until noon Aug. 10, for constructing timber bulkhead at site of new Charleston light house depot on the Ashley River.

Buildings and Incinerator—Port Royal, S. C.—Bids will be received by William M. Smith, Act. Ch., Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Aug. 28, for the construction of buildings and incinerator at Paris Island, Port Royal.

✚**Jetties**—New Orleans, La.—The contract for furnishing and placing on jetty at Southwest Pass, Mississippi River, about 12,000 tons of stone has been awarded to A. F. ALEXANDER, New Orleans, La., at $47,640. Noted July 8.

★**Light Station**—New Orleans, La.—Bids will be received by the Lighthouse Inspector, until 2 p.m., Sept. 10, for the construction of a light station and five lighted beacons for the Atchafalaya Entrance.

★**Fuel Flats and Barges**—Cincinnati, Ohio—Bids will be received at the U. S. Engineer Office, 405 Customhouse, until 2 p.m., Aug. 31, for constructing and delivering four steel fuel flat and two steel barges.

Breakwater and Pierhead—Conneaut, Ohio—The lowest bid submitted for the construction of the pierhead and rubble mound breakwater at Conneaut Harbor, was that of the Coast & Lakes Contracting Co., 1836 Euclid Ave., Cleveland, Ohio. Noted July 8.

✚Dredging—Grand Marais, Mich.—The contract for dredging at Grand Marais has been awarded to the DULUTH-SUPERIOR DREDGING CO., Duluth, Minn., at $5940. Noted July 29.

Excavation—Newell, S. D.—Bids will be received by the U. S. Reclamation Service, Washington, D. C., until 4 p.m., Aug. 27, for the construction of the North Canal extension and laterals, Belle Fourche project, in the vicinity of Newell. The work involves the excavation of about 65,900 cu.yd. of material in open cut.

Bridge—Great Falls, Mont.—Bids will be received by the U. S. Reclamation Service, Washington, D. C., until 2 p.m., Sept. 8, for furnishing and erecting a steel bridge of three 100-ft. spans and a structural steel movable crest with operating machinery for the Vandalia dam of the Milk River project.

✚Irrigation—Great Falls, Mont.—A contract has been awarded the TWO-MIRACLE CONCRETE CORPORATION, at $31,383, for the construction of laterals A and 31-A, on the Flathead Irrigation Project.

Post Office—Fulton, Mo.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Sept. 7, for the construction of the post office at Fulton.

Post Office—Webb City, Mo.—The following bids were received for the construction of the post office at Webb City: (a) limestone; (b) sandstone: R. S. Moore, Lafayette, Ind., (a) $55,920; Frank L. Johnson, Duluth, Minn., (a) $54,696; Kreipke & Schafer Construction Co., El Reno, Okla., $59,000; W. H. Fissell & Co., St. James Bldg., New York, $53,000, (b) $56,000; W. G. Carter Co., Chicago, Ill., (a) $56,535, (b) $61,035; G. W. Miller & Co., Carthage, Mo., (a) $59,900, (b) $69,900; E. A. Steininger Construction Co., St. Louis, Mo., (a) $56,700; Southern Construction Co., Overland, Mo., (a) $59,205, (b) $63,500; George A. Shaul, Seneca, Kan., (a) $50,742; Callahan-Mandl Co., Chicago, Ill., (a) $53,885, (b) $56,885; Barnes Bros., Logansport, Ind., (a) $53,700, (b) $59,700; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $55,987; Algernon Blair, Montgomery, Ala., (a) $51,408; Colonial Construction & Supply Co., Inc., Charlottesville, Va., (a) $53,997; (b) $56,997; Thomas W. Cissell, Wooster, Ohio, (a) $58,000, (b) $61,000; Rogers & Kaiser, People's Gas Bldg., Chicago, Ill., (a) $55,448; (b) $58,977; G. W. Stiles Construction Co., Rookery Bldg., Chicago, Ill., (a) $57,875; Mayben & Freuchtel, Gadsden, Ala., (a) $56,763; Hiram Lloyd Building & Construction Co., Odd Fellows' Bldg., St. Louis, Mo., (a) $53,176; (b) $58,176. Noted June 17.

Post Office and Courthouse—Amarillo, Tex.—Bids will be received by James A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Aug. 31, for the construction of a post office and courthouse at Amarillo.

✚Building—Marlin, Tex.—The contract for the construction of a post office has been awarded to VOLNEY E. TAYLOR, Ennis, Tex., at $44,750. Noted May 13.

Reclamation Service—Provo, Utah—According to press reports the following bids were received for constructing 13 miles of lateral canals of the Strawberry valley reclamation project in Goshen valley: Heuser & Sims, Salt Lake, $73,547; G. H. Gilkerson, Salt Lake, $74,342; Mendenhal, Straw & Bird, Springville, $93,111. Noted July 1.

✚Extension to Jetties—Portland, Ore.—The contract for enlarging and repairing receiving wharves and tramways and extending jettys at mouth of Siuslaw River, has been awarded to the MIAMI QUARRY CO., Portland, at $176,570. Noted July 29.

★Light Station—Navassa Island, West Indies—Specifications for the construction of the light station are on file at the office of "Engineering News" 10th Ave. and 36th St. New York. Noted July 22.

MISCELLANEOUS

★Dredging—Boston, Mass.—(Official)—Bids will be received by Edward L. McSweeney, Chn., Dirs. of the Port of Boston, until noon, Aug. 11, for dredging at Pleasant Park Yacht Club, Winthrop, Orients Heights Yacht Club, East Boston, and Wessagusset Yacht Club, North Weymouth. Bids will also be received at the same time for dredging at Malden Bridge in the Mystic River, Charlestown.

Dredging—Boston, Mass.—The following are the bids received by the Harbor and Land Commission for dredging Wellfleet, Barnstable and Nobscusset harbors. For the work at Barnstable the bids were as follows:

	Dredging and Small Boulders, (cu.yd.)	Large Boulders, (cu.yd.)	Filling in on Shore, (cu.yd.)
John H. Gerrish		$6.00	$0.163
J. S. Packard Dredging Co.	$0.299	7.00	.237
Eastern Dredging Co.	.23	9.50	.29
J. P. O'Riordan	.19	10.00	.....
John R. Burke	.24	10.00	.....
Bay State Dredging Co.	.23	10.00	.....

The Nobscusset (Dennis harbor) bids were:

	Dredging and Small Boulders, (cu.yd.)	Large Boulders, (cu.yd.)
Bay State Dredging Co.	$.315	$10.00
J. S. Packard Dredging Co.	.2689	8.00
John H. Gerrish	.213	8.00
Eastern Dredging Co.	.1945	10.00
John P. O'Riordan	.255	10.00
John R. Burke	.28	10.00

John H. Gerrish also submitted an alternate bid, stating that if awarded the Barnstable contract he would do the dredging at Nobscusset for $0.183c. per cu.yd. The Wellfleet bids were:

	Dredging and Small Boulders, (cu.yd.)	Large Boulders, (cu.yd.)
Bay State Dredging Co.	$.20	$10.00
J. S. Packard Dredging Co.	.239	.239
John H. Gerrish	.143	6.00
Eastern Dredging Co.	.205	9.50
J. P. O'Riordan	.255	10.00

✚Dredging—Boston, Mass.—(Official)—The contract for dredging 15,000 cu.yd. in the channel of the Aberjona River has been awarded to COLEMAN BROS., Chelsea, Boston, at $13,500. Other bids were Lawler Bros., $33,000; John P. Cavanagh Co., $26,250; Bay State Dredging Co., Ltd., $20,850; Eastern Dredging Co., $13,725; William R. Farrell, $13,650. John R. Rablin is Ch. Engr. Noted July 22.

★✚Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for the construction of Section No. 3, Route No. 12, of the Eastern Parkway subway has been awarded to RODGERS & HAGGERTY, Harlem River and 152d St., at $2,170,652. Noted July 15 and 29.

★Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the bids received by the Public Service Commission for the construction of Section No. 2, Route No. 29 of the Nostrand Ave. Subway: Dock Contractor Co., Union Sq. Park, New York, $1,692,370; D. Donegan Co., $1,849,286; T. A. Gillespie Co., $1,879,998; Newman & Carey, $1,953,097; Rodgers & Hagerty, Inc., $2,010,207; Underpinnig & Foundation Co., $2,110,057; Oscar Daniels Co., $2,112,924; Mason & Hanger Co., Inc., $2,150,242; E. E. Smith Contracting Co., $2,184,360; John J. Creein, $2,811,475. Noted July 15.

Hose Reel Carts—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by J. T. Fetherston, Comr., Dept. of Street Cleaning, until noon, Aug. 9, for furnishing and delivering 100 hose reel carts.

✚Lamp Posts—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering c.-i. lamp posts with steel shafts for the Department of Water Supply, Gas and Electricity, has been awarded to the J. L. MOTT CO., 118 Fifth Ave., New York, at $39,568. Noted July 29.

✚Automobile Runabouts—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 20 automobile runabouts to the Fire Department has been awarded to the FORD MOTOR CO., 1723 Broadway, New York, at $8465. Noted July 22 and 29.

★✚Subway—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for the construction of Section No. 3, Routes Nos. 4 and 36, a part of the Broadway subway, has been awarded to the HOLBROOK, CABOT & ROLLINS CORPORATION, 52 Vanderbilt Ave., New York, at $3,730,913. Noted July 15 and 29.

★Subway Station—New York, N. Y.—(Borough of Queens)—(Official)—Bids were received by the Public Service Commission, 154 Nassau St. (Borough of Manhattan), for the construction of the station finish on Route No. 50 of the Queensboro Subway extension, and Section Nos. 1 and 3, Route Nos. 36 and 37, of the Corona Elevated R.R. from Snare & Triest Co., 233 Broadway, New York, $611,563, and Marble Arch Co., 216th St. and Broadway, New York, $750,000. The above figures are the unofficial totals. Noted July 15.

Elimination of Grade Crossing—Passaic, N. J.—The Lackawanna R.R. has entered into agreement with the Acquackanonk Township Committee for the elimination of its grade crossing at River Road, Delawanna, by the construction of a bridge over the tracks and depressing the roadway at William St.

★Grading—Trenton, N. J.—(Official)—Bids will be received by E. J. Edwards, Comptroller, State House, Trenton, until noon, Aug. 17, for about 60,000 cu.yd. of grading and filling in the rear of the Capitol.

Motor Fire Apparatus—Edwardsville, Penn.—The City Council has passed an ordinance appropriating $15,000 for the purchase of motor fire apparatus.

Dredging, Etc.—Philadelphia, Penn.—Bids will be received by John Meigs, Dir., Dept. of Wharves, Docks and Ferries, until Aug. 16 for dredging in Delaware River Channel also for constructing a temporary bulkhead in the Schuylkill River.

★✚Wharf and Warehouse—Augusta, Ga.—The contract for constructing the reinforced-concrete wharf and steel warehouse, has been awarded by the City Council to the GEORGIA CONTRACTING CO., Augusta, at $27,956. Noted June 24 and July 15.

Drainage—New Albany, Miss.—It is reported that bids will be received by the Big Creek Drainage District, New Albany, until Aug. 9 for drainage work, requiring about 276,822 cu.yd. of excavation.

Drainage—Selmer, Tenn.—Press reports state that bids will be received until Aug. 12 by the Cypress Creek Drainage District, No. 9, for the construction of a Canal 4.8 miles long.

Terminal Improvements—Louisville, Ky.—It is planned to improve the water front by the construction of a terminal system. The Board of Trade is interested.

✚Grand Stand—Louisville, Ky.—The contract for the erection of the concrete grandstand on the athletic field of the high school, has been awarded to ORVID NORELL, Louisville at about $15,000.

Ditch—Morganfield, Ky.—The contract for the construction of the O'Nan Public ditch will soon be awarded. The plans call for about 13½ miles of ditch, requiring 622,000 cu.yd. of excavation. Norman R. Arcutt, Morganfield, is Ch. Engr.

Motor Fire Apparatus—Bellaire, Ohio—Bids will be received by the Director of Public Service until Aug. 11 for furnishing two fire trucks, and one tractor for a chemical and hose cart. Noted July 1.

Elimination of Grade Crossings—Cleveland, Ohio—According to press reports work will start about Sept. 15 on the elimination of grade crossings in Cleveland by the New York, Chicago & St. Louis Ry. Noted Mar. 18.

✚Ditch—Defiance, Ohio—The contract for the Lost Creek Ditch Improvement No. 437 has been awarded to GILMORE BROS. and EDWARD BODETT, Toledo, Ohio, at $46,000. There will be 528,422 cu.yd. of dredging required. Noted Mar. 18.

Dredging—Lima, Ohio—According to press reports, plans have been prepared for improving and dredging the Ottawa River.

✚Motor Fire Apparatus—Martins Ferry, Ohio—The contract for furnishing two motor fire engines has been awarded to the AHERNS-FOX CO., Cincinnati, at $10,800. Noted May 13.

Track Elevation Work—Ft. Wayne, Ind.—Bids will be received by H. W. Becker, Clk., Dept. of Pub. Wks., until Aug. 12 for constructing the city's portion of work under Track Elevation Resolution No. 12.

✚Dredging—Indianapolis, Ind.—The contract for dredging the Lagoon in Garfield Park, has been awarded by the Board of Park Commissioners to the S. M. TIMBERLAKE CO., American Central Life Bldg., at cost plus 40%. Noted July 15.

Drainage—Oak Creek, Wis.—Bids will be received by the Town Board until 10 a.m., Aug. 19, for the construction of the Oak Creek tile drain. P. J. Hurtgen, Burlington, Wis., is Engr.

Drainage—Corydon, Iowa—Surveys are being made in the Eighth Ward for the construction of a drainage system. The estimated cost is $200,000. Warren W. Reed, Morgan City, Iowa is Engr.

Drainage—Ft. Madison, Iowa—It is reported that plans are being prepared for the construction of levees and drains at an estimated cost of $348,000; also for the erection of a pump house, at an estimated cost of $47,000. Edmund T. Perkins, Chicago, Ill., Engr.

River Improvement—Villisca, Iowa—The County Commissioners plan to straighten the West Nodway River. Surveys are being made.

Ditch—Mankato, Minn.—It is reported that bids will be received by C. L. Kennedy, County Audr., until Aug. 16 for constructing Ditch No. 37. The estimated cost is $11,856.

✚Mausoleum—Wichita, Kan.—The contract for the construction of a stone and marble mausoleum 60x136 containing 400 crypts for the Highland Cemetery Association has been awarded to the PEOPLE'S MAUSOLEUM CO. Waterloo, Iowa, at $60,000.

Motor Fire Apparatus—Omaha, Neb.—The City Council has approved of spending $66,500 for the purchase of motor fire apparatus and the installation of a fire alarm system.

Pavilion—Excelsior Springs, Mo.—At a recent election the citizens voted in favor of issuing $20,000 in bonds, for the construction of a pavilion.

✚Improvement to Creek—Kansas City, Mo.—The contract for deepening and widening Turkey Creek Channel has been awarded to the GEORGE H. SEIDHOFF CONSTRUCTION CO., on a percentage basis. The estimated cost is $15,000. Curtis Hill, City Hall, is City Engr.

✚Ditches—Poplar Bluff, Mo.—The contract for constructing nine drainage ditches has been awarded by the County Commissioners to the NORTHERN CONSTRUCTION CO., Elkhart, Ind., at 6.6c. and 6.95c. per cu.yd. Noted July 15.

Dock—St. Joseph, Mo.—Plans are being prepared by the Board of Public Works for the construction of a dock. Charles Campbell is City Engr.

Addition to Pier—Camden, Ark.—Bids will be received by the Commissioners of Martin Free Bridge until Aug. 9 for building additions and reinforcing the pivot pier. I. A. Baum is Engr.

Elimination of Grade Crossing—Dallas, Tex.—The City Commission has appointed John F. Wallace, Consult. Engr., Chicago, Ill., to prepare a plan for grade crossing elimination in the streets of Dallas.

Wharves and Docks—Orange, Tex.—A bond issue of $150,000 has been voted for the construction of wharves and docks. Noted June 10.

Drainage—Counne, Utah—At a recent election the citizens voted in favor of a bond issue of $175,000 for the construction of ditches to drain 12,000 acres in Bear River valley.

Bulkhead—Seattle, Wash.—The Seattle Cedar Lumber Mfg. Co. plans to construct a bulkhead on Shilshone Ave., estimated to cost $100,000.

Mausoleum—Covina, Calif.—Lyman Farwell, Arch., Story Bldg., Los Angeles, is preparing plans for a mausoleum to be erected in Oakdale cemetery, Covina, for the Mausolos Mausoleum Co. The structure will be 50x152 ft., and will contain 320 crypts. It will be of reinforced concrete construction with terra cotta facing, marble and terra cotta interior finish, bronze work, etc., and will cost $35,000.

★Piers—Honolulu, Hawaii—(Official)—Bids will be received by Charles R. Forbes, Chn., Board of Harbor Commissioners, until 2 p.m., Sept. 22, for the construction of reinforced-concrete piers Nos. 8, 9 and 10, at the foot of Fort St.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Rumford, Maine—The town of Rumford has voted to construct a municipal building to cost $70,000.

Boston, Mass.—Plans have been prepared by G. Hewie Desmond, Arch., 15 Beacon St., for the constrction of a hotel at Tremont and Mason St. The estimated cost is $1,300,000.

✚Boston, Mass.—The contract for the construction of the St. Matthews Church on Stanton St., has been awarded to McGAHEY & O'CONNOR, 318 Washington St. Charles R. Greco, 8 Beacon St., is Arch.

✚Boston, Mass.—The contract for the construction of the Dawes Memorial Lodging House for men has been awarded to HORTON & HEMENWAY, 683 Atlantic Ave. The estimated cost is $100,000. Brown & Walcott, 19 South La Salle St., Chicago, Ill., is Arch.

✚Boston, Mass.—John A. Kelliher, Chn. of State House Com., 505 State House, has awarded the contract for the construction of an addition to the state house to WILLIAM CRANE, at $304,750. Other bids were: McGahey & O'Connor, $307,234; Norcross Bros. Co., $308,500; George B. Long, $313,707; Conners Bros. Co., $321,251; Casper Ranger Construction Co., $329,000; Cunningham Construction, $332,480; Marr Bros. & Stewart, $329,981; Leighton Mitchell, $321,736; G. B. H. Macomber Co., $337,900; P. O'Hearn, $397,318; W. A. & H. A. Root, Inc., $319,440; Whiton & Haynes Co., $329,621. Noted July 8.

✚Cambridge, Mass.—The contract for the construction of a six-story, 75x122-ft. apartment house on Massachusetts Ave. has been awarded to J. B. BYRNE, INC., 162 Sydney St. The estimated cost is $160,000. Henry Mears, 6 Beacon St., Boston, Mass., is Arch.

Medford, Mass.—F. W. Norris will build a three-story, 70x245-ft. brick block on Forest St. Charles R. Greco, 8 Beacon St., Boston, Mass., is Arch.

Milford, Mass.—Bids will soon be received for the construction of a two-story, 82x110-ft. brick school to cost $75,000. Collin & Phillips is Arch.

Pittsfield, Mass.—Mrs. Frederick S. Soolidge has donated to the city $100,000 for the construction of a tuberculosis hospital as a memorial to her husband.

Worcester, Mass.—George H. Clemens, Arch., Walker Bldg., has prepared plans for the construction of a police station on Waldo St. George C. Halcott, Room 35, City Hall, is Supt. of Pub. Bldgs.

Burrillville, R. I.—(Harrisville post office)—The state will build a tuberculosis hospital to cost about $120,000. Gilbert P. Parker, State House, Providence, R. I., is Secy. of Bd. of Control and Supply. Walter F. Fontaine, 285 Main St., Woonsocket, R. I., is Arch.

✚Providence, R. I.—The P. J. TROTTER BUILDING CO., East Providence, R. I., has been awarded the contract for the construction of a brick and granite church for St. Charles congregation on Lester St. The estimated cost is $75,000. W. F. Fontaine, Woonsocket, R. I., is Arch. Noted June 24.

Providence, R. I.—Bids will be received about Sept. 1 for the construction of a two-story brick grammar school on Charles St. The estimated cost is $150,000. William R. Walker & Son, 17 Cusotm House St., is Arch. Noted June 24.

Little Falls, N. Y.—Bids will be received until 8 p.m., Aug. 31, for the construction of a municipal building at Little Falls. The estimated cost is $100,000. M. A. Leahy is City Clk. and William N. Smith, 101 Park Ave., New York, is Arch. Noted May 27 and June 24.

New York, N. Y.—(Borough of Brooklyn)—(Official)—N. Serracino, Arch., 1170 Broadway, New York, is preparing plans for the construction of a hotel and restaurant at Ocean Parkway and Neptune Ave., Brighton Beach, for Felix Miserocchi, 29 West 27th St., New York.

New York, N. Y.—(Borough of Brooklyn)—Lewis F. Pilcher, State Arch., Capitol, Albany, is preparing plans for the construction of an addition to the patients' building at the Long Island State Hospital. The estimated cost will be $400,000.

New York, N. Y.—(Borough of Manhattan)—Herbert Lucas, Arch., 340 Madison Ave., is preparing plans for the construction of an apartment house at Fifth Ave. and 63rd St. on the site of the Progress Club. The estimated cost is $2,500,000.

New York, N. Y.—(Borough of Manhattan)—Work will soon be started on the construction of a 12-story apartment house at 80th St. and West End Ave. for J. C. Mayer and M. G. Mayer. The estimated cost is $250,000. Noted Feb. 11.

Asbury Park, N. J.—The Directors of the Seacoast National Bank plan to construct an auditorium. Estimated cost, $300,000. James M. Ralston is Pres. of the bank and F. H. Dodge, Allenhurst, is Arch.

East Orange, N. J.—Bids will be received until 8:30 p.m., Aug. 9, by Warren A. Clapp, Secy., Bd. of Education, Winans St., for alterations to the Eastern School. Guilbert & Betelle, 665 Broad St., Newark, is Arch.

Kearney, N. J.—The Common Council has arranged for an ordinance authorizing the issuing of $73,000 in bonds. The proceeds will be used for improvements to schools in Kearney.

Newark, N. J.—The Market & Beaver Realty Co. will rebuild the Newark Theater, 193 Market St. The cost is estimated at $750,000.

Paterson, N. J.—The Board of Estimate of the Board of Education will construct a new school in the Riverside Section instead of an addition to Public School No. 10 as previously mentioned. The estimated cost is $125,000. Noted July 1.

✚Perth Amboy, N. J.—HANS GREISON & SONS, 223 Jefferson St., Perth Amboy, has been awarded the contract for the construction of Public School No. 9. Noted Apr. 15 and 22.

Secaucus, N. J.—An election will be held Aug. 11 to vote on the question of isuing $40,000 in bonds. The proceeds will be used for the construction of an addition to Public School No. 1.

✚Elizabethtown, Penn.—(Official)—The contract for the construction of a three-story hospital for the Philadelphia Free Masons has been awarded to the POMEROY CONSTRUCTION CO., 1609 Ranstead St., Philadelphia, at $44,000. Guy King & Co., 1513 Walnut St., Philadelphia, is Arch. Noted June 3 and July 8.

✚Harrisburg, Penn.—JOHN F. BARNHART, 1727 North Third St., Harrisburg, at $63,778, has been awarded the contract for the construction of a school at Fifth and Mahontongo St. Noted June 24.

Harrisburg, Penn.—Bids will be received until 2 p.m., Aug. 10, by the State Board of Commissioners of Public Grounds and Buildings, Harrisburg, for the completion of a new fireproof main building (the first floor and basement having been

(Continued on page 107)

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

Section No. 3—Route Nos. 4 and 36

✚Bids were received July 27 by the Public Service Commission for the construction of Section No. 3, Route Nos. 4 and 36, a part of the Broadway Subway from (A) HOLBROOK, CABOT & ROLLINS CORPORATION (awarded contract), (B) Oscar Daniels Co., (E) MacArthur Bro[illegible] Co., (F) Underpinning & Foundation Co., (G) Degnon Cont[illegible]ting Co., (H) T. A. Gillespie Co., (I) Rapid Transit Subway [illegible]onstruction Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
107,400 cu.yd. earth excavation above mean high water	$3.25	$5.25	$5.45	$3.80	$4.25	$5.50	$5.75	$6.[illegible]	$6.00
3570 cu.yd. earth excavation for sewers, pipes, etc	3.25	5.25	5.45	3.80	4.00	5.50	5.75	6.[illegible]	6.00
Rock Excavation									
195,400 cu.yd. station 210+60 to 219+75 and 223+00 to 243+80	5.25	5.25	5.45	7.00	6.25	5.50	6.50	7.[illegible]	7.50
26,300 cu.yd. station 219+75 to 223+00	5.30	12.00	9.50	10.00	15.00	11.00	15.00	12.[illegible]	9.00
9600 cu.yd. rock excavation for sewers, pipes, etc	5.50	6.00	8.00	8.00	6.00	5.50	6.50	7.[illegible]	7.50
Underpinning Buildings									
1785 lin.ft. less than seven stories	100.00	15.00	50.00	60.00	40.00	60.00	40.00	60.[illegible]	50.00
915 lin.ft. from seven to twelve stories, inclusive	175.00	15.00	60.00	90.00	75.00	80.00	88.00	80.[illegible]	75.00
100 lin.ft. over twelve stories	250.00	150.00	100.00	100.00	125.00	100.00	150.00	100.[illegible]	150.00
1025 lin.ft. maintaining, protecting, etc., buildings	50.00	15.00	45.00	25.00	30.00	60.00	25.00	40.[illegible]	30.00
Maintaining Knickerbocker Hotel (lump sum)	25,000.00	20,000.00	10,000.00	6,000.00	12,000.00	12,000.00	30,000.00	20,000.[illegible]	15,000.00
Maintaining Times Building (lump sum)	5,000.00	7,500.00	10,000.00	6,000.00	17,000.00	10,000.00	10,000.00	10,000.[illegible]	5,000.00
Maintaining Longacre Building (lump sum)	25,000.00	20,000.00	15,000.00	6,000.00	21,000.00	12,000.00	7,500.00	10,000.[illegible]	10,000.00
Maintaining Comfort Station (lump sum)	5,000.00	4,500.00	3,000.00	6,000.00	2,500.00	5,000.00	7,500.00	2,000.[illegible]	3,000.00
4000 cu.yd. tunnel excavation for sewers	15.00	12.00	8.00	8.00	10.00	8.00	12.00	10.[illegible]	13.00
44,300 cu.yd. concrete masonry	9.00	10.00	8.25	9.50	10.00	9.00	9.00	10.[illegible]	11.00
5600 cu.yd. protective concrete	8.00	10.00	8.25	9.50	10.00	9.00	9.00	10.[illegible]	11.00
3200 cu.yd. rubble stone masonry	6.50	7.00	7.50	5.00	5.00	9.00	8.00	8.[illegible]	8.00
50 cu.yd. dry stone masonry	4.00	5.00	7.50	4.00	4.00	8.00	5.00	3.[illegible]	6.00
110 cu.yd. brick masonry	15.00	15.00	25.00	15.00	15.00	25.00	15.00	15.[illegible]	16.00
Placing column C-27 (lump sum)	1,000.00	500.00	2,000.00	1,500.00	1,200.00	1,500.00	500.00	1,000.[illegible]	560.00
50 cu.yd. hollow terra-cotta masonry	15.00	15.00	25.00	15.00	15.00	40.00	15.00	15.[illegible]	15.00
4000 bbl. grout of Portland cement	4.00	3.00	3.50	2.50	2.50	4.00	4.00	3.[illegible]	3.50
500 sq.yd. resurfacing concrete	1.50	2.00	2.00	.40	1.20	2.50	2.00	.[illegible]	3.00
100 lin.ft. timber piles	2.00	.25	1.00	.50	.40	.50	.25	.[illegible]	.75
2 M ft. b.m. timber foundations	80.00	40.00	100.00	40.00	60.00	40.00	50.00	45.[illegible]	75.00
50 cu.yd. broken stone or gravel	2.75	3.00	3.00	1.60	2.50	3.00	2.00	1.[illegible]	2.50
13,000 sq.yd. waterproofing, 1 ply	.32	.40	.50	.30	.45	.55	.50	.[illegible]	.50
100 sq.yd. waterproofing, 2 ply	.50	.65	.70	.60	.60	1.00	.75	.[illegible]	.75
27,300 sq.yd. waterproofing, 3 ply	.75	.90	1.00	1.00	.95	1.50	1.00	.[illegible]	1.50
100 sq.yd. waterproofing, 4 ply	1.00	1.25	1.20	1.30	1.20	1.85	1.50	1.[illegible]	2.00
100 sq.yd. waterproofing, 5 ply	1.50	1.60	1.50	1.60	1.50	2.30	1.75	1.[illegible]	2.50
600 sq.yd. waterproofing, 6 ply	1.75	2.00	1.75	1.80	1.80	2.70	2.00	1.[illegible]	2.75
100 sq.yd. waterproofing, dry ply	.20	.40	.50	.30	.30	.50	.40	.[illegible]	.50
1800 cu.yd. brick in asphalt mastic	25.00	25.00	25.00	27.00	25.00	35.00	20.00	25.[illegible]	30.00
100 lin.ft. 12-in. vitrified pipe	.70	.85	1.50	1.00	.90	.85	.80	.[illegible]	.80
100 lin.ft. 10-in. vitrified pipe	.65	.75	1.50	.80	.80	.75	.60	.[illegible]	.70
3800 lin.ft. 8-in. vitrified pipe	.55	.60	1.25	.60	.50	.60	.50	.[illegible]	.60
100 lin.ft. 6-in. vitrified pipe	.50	.50	1.00	.60	.40	.45	.40	.[illegible]	.50
100 lin.ft. 4-in. vitrified pipe	.45	.45	1.00	.30	.25	.30	.30	.[illegible]	.40
100 lin.ft. 6-in. c.i. pipe	.70	1.25	1.25	1.25	1.20	1.30	1.50	.[illegible]	1.10
4000 lin.ft. 4-in. c.i. pipe	.75	.60	1.00	.50	.75	.85	1.00	.[illegible]	.80
100 lin.ft. 10-in. c.i. pipe	1.25	2.50	1.60	1.50	2.00	2.20	2.25	1.[illegible]	2.00
50 lin.ft. 3-in. c.i. pipe, extra heavy, specials	1.00	1.25	1.50	1.00	.90	.85	1.00	.[illegible]	1.00
100 lin.ft. 4-in. c.i. pipe, extra heavy, specials	1.25	1.50	1.60	1.25	1.00	1.15	1.00	.[illegible]	1.25
150 lin.ft. 6-in. c.i. pipe, extra heavy, specials	1.50	1.75	1.75	2.00	1.40	1.75	1.50	1.[illegible]	1.70
50 lin.ft. 8-in. c.i. pipe, extra heavy, specials	2.00	3.00	2.00	2.25	2.00	2.35	2.00	1.[illegible]	2.00
229,200 duct ft. tunnel ducts	.10	.12	.15	.08	.12	.17½	.15	.[illegible]	.18
Riveted steel									
2630 ton Station 210+60 to 219+75 and 223+00 to 243+80	80.00	60.00	65.00	60.00	70.00	92.00	60.00	55.00	80.00
470 ton Station 219+75 to 223+00	90.00	70.00	100.00	60.00	125.00	106.00	85.00	75.00	90.00
75 ton cutting removal and disposal, old steel	50.00	100.00	100.00	12.00	45.00	50.00	65.00	50.00	50.00
Steel beams and shapes									
2740 ton Station 210+60 to 219+75 and 223+00 to 243+80	75.00	55.00	57.50	55.00	65.00	85.00	60.00	53.00	70.00
470 ton Station 219+75 to 223+00	85.00	65.00	100.00	55.00	90.00	95.00	80.00	73.00	75.00
1000 hole drilling holes in steel	1.00	1.00	1.50	.50	.25	.50	.75	.50	3.00
120 ton steel rods and bars	90.00	60.00	85.00	60.00	55.00	100.00	55.00	36.00	80.00
30 ton miscellaneous iron castings	75.00	70.00	100.00	50.00	65.00	100.00	50.00	55.00	75.00
2 ton miscellaneous iron furnishings	75.00	100.00	100.00	50.00	70.00	100.00	50.00	60.00	75.00
1000 lb. special wire forms	.10	.10	.15	.20	.10	.40	.15	.12	.10
5200 lin.ft. 1¼-in. oak or ash handrail	.25	.30	.50	.25	.40	.50	.50	.40	.60
10,000 sq.ft. steel gratings	1.50	2.00	1.50	1.40	1.50	1.50	1.25	1.30	1.50
4300 sq.ft. vault lights	2.00	1.75	1.50	1.10	1.40	1.40	1.25	1.20	1.50
6300 sq.yd. street surface restored within curbs	2.00	2.50	2.50	2.00	1.75	3.00	2.00	1.00	2.75
24,000 sq.yd. street surface, asphalt	2.50	2.50	3.50	3.00	2.70	3.00	3.00	1.80	3.00
850 sq.yd. street surface, granite block	2.00	2.00	3.50	2.00	2.50	2.00	3.00	1.00	4.00
100 lin.ft. street surface, New Blue Street curb	1.00	1.00	1.50	2.00	.90	1.50	1.50	1.00	2.00
100 lin.ft. street surface, 8-in. granite curb	1.50	1.50	2.50	2.00	1.20	3.00	1.75	2.00	2.50
7150 lin.ft. w.i. electric conduit, ¾ in	.20	.20	.20	.20	.12	.20	.40	.16	.25
800 lin.ft. w.i. electric conduit, 1¼ in	.25	.30	.45	.35	.25	.45	.50	.31	.40
450 lin.ft. w.i. electric conduit, 2 in	.30	.35	.55	.40	.30	.60	.60	.38	.50
6800 lin.ft. w.i. electric conduit, 1 in	.25	.25	.35	.30	.18	.30	.45	.23	.30
980 c.i. outlet boxes	1.00	1.50	1.00	1.00	1.00	2.00	.75	.70	1.00
12 c.i. pull boxes	1.50	2.00	2.00	2.00	2.00	2.00	6.00	.70	5.00
450 lin.ft. extra heavy c.i. pipe and fittings, 6 in	2.00	1.75	2.00	1.75	1.50	2.00	1.50	.90	2.00
150 lin.ft. extra heavy c.i. pipe and fittings, 3 in	1.50	1.25	1.50	1.00	.90	.90	1.00	.40	1.00
375 lin.ft. 12-in. vitrified pipe sewer	3.00	2.75	2.00	3.00	3.00	3.50	4.00	1.10	4.50
1720 lin.ft. 15-in. vitrified pipe sewer	3.00	3.00	3.00	3.50	3.50	4.40	4.50	1.50	5.00
100 lin.ft. 18-in. vitrified pipe sewer	3.00	3.50	3.50	4.00	4.00	5.25	5.00	2.00	6.00
100 lin.ft. 24-in. vitrified pipe sewer	4.70	5.50	5.00	4.50	4.80	7.00	5.50	3.00	7.00
12 ton c.i. sewer pipe, straight	40.00	50.00	60.00	70.00	45.00	58.00	60.00	45.00	50.00
4 ton c.i. sewer pipe, special	80.00	80.00	100.00	80.00	75.00	110.00	80.00	65.00	80.00
1800 lin.ft. egg-shaped sewer, brick or concrete, 3 ft., 6 in., x 2 ft., 4 in	4.50	7.00	8.00	6.00	6.00	7.30	9.00	6.00	9.00
1440 lin.ft. egg-shaped sewer, brick or concrete, 4 ft., 0 in. x 2 ft., 8 in	6.00	8.00	10.00	7.00	7.00	8.75	10.00	6.20	10.00
25 lin.ft. egg-shaped sewer, brick or concrete, 5 ft., 0 in., x 3 ft., 4 in	7.50	9.00	20.00	8.00	8.50	13.00	11.00	7.00	15.00
60 lin.ft. circular sewer, brick or concrete or reinforced concrete, 3 ft., 6 in	4.00	8.00	10.00	7.00	7.00	15.00	9.00	6.50	9.00
220 lin.ft. circular sewer, brick or concrete or reinforced concrete, 4 ft., 0 in	5.00	9.00	12.00	8.00	8.00	15.00	10.00	7.00	10.00
1100 lin.ft. circular sewer, brick or concrete or reinforced concrete, 4 ft., 9 in	7.00	10.00	12.00	9.00	9.20	21.00	11.00	8.00	15.00
70 lin.ft. circular sewer, brick concrete or reinforced concrete, 5 ft., 6 in	10.00	11.00	20.00	10.00	10.50	25.00	12.00	10.00	20.00
7120 lin.ft. street surface railroad, underground trolley	20.00	12.00	20.00	17.00	7.00	5.00	12.00	6.00	12.00
Support, etc., M. B. R. T. R.R. (lump sum)	103,000.00	200,000.00	25,000.00	201,000.00	125,000.00	50,000.00	75,000.00	214,000.00	50,000.00
830 lin.ft. 6-in. water pipe	.75	.50	1.50	1.00	.80	.45	1.50	1.10	1.25
100 lin.ft. 10-in. water pipe	2.00	.75	2.00	1.25	1.40	.75	1.75	1.60	1.50
650 lin.ft. 12-in. water pipe	2.25	1.00	2.50	3.00	1.60	.90	2.00	2.00	2.00
100 lin.ft. 16-in. water pipe	3.00	1.50	5.00	3.50	2.00	1.20	2.50	2.25	3.00
1000 lin.ft. 20-in. water pipe	4.35	2.00	6.00	4.00	2.50	1.45	3.00	2.50	4.00
200 lin.ft. 48-in. water pipe	16.00	5.00	15.00	5.00	6.00	3.50	8.00	8.00	12.00
50 service connections, water	25.00	25.00	20.00	20.00	12.00	25.00	25.00	20.00	20.00
100 lin.ft. 3-in. gas pipe	.50	.25	.50	.80	.60	.30	1.00	.80	.75
870 lin.ft. 4-in. gas pipe	.65	.35	1.00	1.00	.75	.35	1.00	1.00	1.00

RAPID TRANSIT SYSTEM, NEW YORK—(Continued)

	A	B	C	D	E	F	G	H	I
2400 lin. ft. 6-in. gas pipe	1.15	.60	1.50	1.50	1.00	.45	1.25	1.50	1.25
800 lin. ft. 8-in. gas pipe	1.25	.75	1.60	1.75	1.30	.60	1.50	1.75	1.50
390 lin. ft. 10-in. gas pipe	2.00	1.00	1.80	2.00	1.50	.75	1.75	2.00	1.75
500 lin. ft. 12-in. gas pipe	2.75	1.00	2.50	2.50	1.80	.90	2.00	2.50	2.00
100 lin. ft. 16-in. gas pipe	3.50	1.50	5.00	3.00	2.40	1.15	2.20	3.50	2.25
350 lin. ft. 20-in. gas pipe	4.35	2.00	5.00	4.00	3.00	1.45	2.50	5.00	3.00
100 lin. ft. 30-in. gas pipe	9.00	3.50	7.00	6.00	4.30	2.20	3.00	6.00	5.00
6650 lin. ft. 8-in. w.i. by-pass pipe	3.50	3.50	6.00	3.00	3.00	5.00	4.00	2.50	5.00
100 lin. ft. 16-in. w.i. by-pass pipe	9.00	5.00	10.00	8.00	3.50	7.00	5.00	5.00	8.00
100 lin. ft. 20-in. w.i. by-pass pipe	10.00	6.00	12.00	10.00	4.50	10.00	6.00	7.50	12.00
150 lin. ft. 24-in. w.i. by-pass pipe	12.00	7.00	15.00	13.00	6.00	15.00	7.00	9.00	15.00
200 lin. ft. 16-in. w.i. by-pass pipe above street surface	9.00	5.00	10.00	9.00	5.00	7.00	5.00	5.00	12.00
300 lin. ft. 20-in. w.i. by-pass pipe above street surface	10.00	6.00	15.00	11.00	6.00	10.00	6.00	7.00	16.00
250 lin. ft. 8-in. w.i. by-pass pipe above street surface	4.00	3.00	7.00	3.00	3.00	5.00	4.00	2.75	8.00
250 lin. ft. trestle for by-pass pipe	2.00	5.00	8.00	4.00	3.00	4.00	2.00	5.00	5.00
500 lin. ft. cable suspension, 16-in. pipes and over	7.50	5.00	8.00	2.00	6.00	4.00	2.00	4.00	5.00
200 lin. ft. cable suspension for 16-in. pipes and less	7.50	5.00	8.00	2.00	5.00	4.00	2.00	3.00	3.00
100 lin. ft. 4-in. w.i. gas pipe	2.00	.75	1.00	1.00	1.00	1.00	1.00	1.00	1.25
100 lin. ft. 6-in. w.i. gas pipe	3.00	1.25	1.50	1.50	1.20	1.50	1.50	1.50	1.50
100 lin. ft. 8-in. w.i. gas pipe	4.00	2.50	1.60	2.00	1.50	2.00	2.00	2.00	2.00
370 lin. ft. 10-in. w.i. gas pipe	5.00	3.00	1.80	2.50	1.70	2.50	2.25	3.00	2.25
100 lin. ft. 12-in. w.i. gas pipe	6.00	4.00	2.50	3.00	2.50	3.00	2.50	3.50	2.50
50 service connections, gas	15.00	25.00	25.00	15.00	12.00	25.00	25.00	25.00	20.00
105 ton new c.i. hub and spigot straight pipe	30.00	30.00	50.00	60.00	35.00	58.00	40.00	35.00	45.00
100 lin. ft. new standard weight w.i. gas pipe, 4 in	.75	.75	.50	.80	.75	1.00	1.00	1.50	1.25
100 lin. ft. new standard weight w.i. gas pipe, 6 in	1.00	1.25	.70	1.00	1.00	1.50	1.50	2.00	1.50
100 lin. ft. new standard weight w.i. gas pipe, 8-in	1.25	2.50	1.00	1.25	1.25	2.00	2.00	2.50	2.00
100 lin. ft. new standard weight w.i. gas pipe, 10 in	1.50	3.00	1.50	2.25	1.70	2.50	2.25	3.00	2.50
100 lin. ft. new standard weight w.i. gas pipe, 12 in	2.00	4.00	2.00	2.75	1.90	3.00	2.50	3.50	3.00
45 ton new c.i. hub and spigot special pipe	60.00	65.00	100.00	75.00	70.00	110.00	60.00	60.00	80.00
100 lb. new m.i. fittings for gas pipe	.10	.20	.25	.50	.08	.20	.15	.10	.20
200 lin. ft. 8-in. high pressure water pipe	1.95	1.00	2.00	2.50	1.60	6.00	2.00	2.50	3.00
660 lin. ft. 12-in. high pressure water pipe	3.50	1.50	3.00	3.00	2.50	9.00	3.00	3.00	4.50
100 lin. ft. 16-in. high pressure water pipe	6.35	2.00	4.00	3.50	3.50	12.00	4.00	3.70	6.00
740 lin. ft. 24-in. high pressure water pipe	10.00	3.00	5.00	4.50	5.50	18.00	5.00	4.50	8.00
25 ton new c.i. hub and spigot straight high pressure water pipe	30.00	40.00	50.00	50.00	35.00	58.00	40.00	40.00	50.00
20 ton new c.i. hub and spigot special high pressure water pipe	75.00	60.00	100.00	70.00	70.00	110.00	60.00	40.00	80.00
100 lin. ft. 6-in. air pipe in place	.30	1.00	2.00	1.50	1.25	2.50	1.00	1.00	3.00
50 lin. ft. 6-in. air pipe, new	1.00	1.50	2.00	1.00	1.25	3.00	1.00	1.00	5.00
100 lin. ft. 8-in. mail tube, in place	5.00	1.50	3.00	4.00	1.60	3.00	3.00	20.00	5.00
20 lin. ft. 8-in. mail tube, new, straight	10.00	2.50	8.00	6.00	1.60	4.00	3.00	20.00	10.00
30 lin. ft. 8-in. mail tube, new, special	25.00	5.00	10.00	12.00	2.50	25.00	5.00	20.00	20.00
23,000 duct. ft. electric ducts and conduits	.75	.75	1.00	.10	.50	.15	1.00	.30	.75
6000 lin. ft. w.i. pipe electric ducts and conduit, 2½ in	.60	.75	.50	.10	.40	.15	1.00	.30	.55
46,000 lin. ft. w.i. pipe electric ducts and conduit, 3 in	.70	.75	.60	.10	.45	.15	1.00	.30	.60
400 lin. ft. w.i. pipe electric ducts and conduit, 3½ in	.75	.75	.90	.10	.50	.15	1.00	.30	.65
100 lin. ft. w.i. pipe electric ducts and conduit, 4 in	.80	.75	1.25	.10	.55	.15	1.00	.30	.70
100 lin. ft. w.i. pipe electric ducts and conduit, 4½ in	.90	.75	1.75	.10	.60	.15	1.00	.30	.80
100 lin. ft. w.i. pipe electric ducts, 2 in. Edison	1.00	.75	.50	.10	.45	.15	1.00	.90	.50
200 lin. ft. w.i. pipe electric ducts, 2½ in. Edison	1.25	.75	.50	.10	.50	.15	1.00	1.00	.60
300 lin. ft. w.i. pipe electric ducts, 3 in. Edison	1.50	.75	.60	.10	.60	.15	1.00	1.10	.75
100 lin. ft. w.i. pipe electric ducts, 1½ in. Edison	.90	.75	.50	.10	.35	.15	1.00	.80	.30
200 lin. ft. w.i. pipe electric ducts, 2 in	.50	.75	.50	.10	.35	.15	1.00	.40	.50
90 lin. ft. service connections, electric	25.00	25.00	20.00	10.00	15.00	25.00	25.00	10.00	25.00
Extended totals	$3,740,913	$3,755,118	$3,814,808	$3,953,416	$3,958,975	$3,987,371	$4,166,934	$4,231,474	$4,444,118

STATE HIGHWAYS-CALIFORNIA

Bids were received July 19 by the State Highway Commission, Sacramento, Calif., for constructing highways in Los Angeles, Santa Clara and Alameda Counties, from (A) Homer R. Kennedy and Frank Williams, Los Angeles; (B) Peter L. Ferry, Tropico; (C) Andrew Holloway, Pasadena; (D) White & Gaskill, Long Beach; (E) Leigh G. Garnsey, Los Angeles; (F) Tryon & Brain, Los Angeles; (G) C. T. Solato and H. A. Taylor, Los Angeles; (H) Rogers Bros. Co., Los Angeles; (I) M. R. Co., Los Angeles; (J) Fred Hoffman, Long Beach; (K) Palmer & McBryde, San Francisco; (L) Bates Borland & Ayer, Oakland; (M) Highway Paving & Construction Co., San Francisco; (N) C. H. & A. W. Gorrill, San Francisco; (O) John W. McDonald, Jr., San Jose; (P) Marin Rock Co., San Anselmo; (Q) Commary Peterson Co., San Francisco; (R) Ransome & Crummy Co., Oakland; (S) Peterson & Brier, San Francisco; (T) Tieslau Bros., San Francisco; (U) Raisch Improvement Co., San Francisco; (V) Blanchard-Brown Co., San Francisco; (W) M. Blumenkranz, Davis; (W-1) Spring Construction Co., Berkeley; (X) H. G. Vaughn Construction Co., San Francisco; (X-1) Parrott Bros., Co., Salt Lake City, Utah; (Y) P. H. Hoare, Oakland; (Y-1) W. B. Hunt & Sons, Alameda; (Z) W. J. Schmidt, Berkeley; (Z-1) Engineer's Estimate. The item bids were as follows:

Los Angeles County	A	B	C	D	E	F	G	H	I	J	(Z-1)
21,570 cu.yd. excavation, unclassified	$1.00	$0.60	$0.51	$1.00	$0.70	$0.70	$0.55	$0.72	$0.815	$0.75	$0.40
26 lin.ft. 12-in. corrugated iron pipe	.50	1.00	.40	.75	.40	.50	1.00	1.00	.50	.40	.40
516 lin.ft. 18-in. corrugated iron pipe	.70	1.50	.50	1.00	.60	.70	1.50	1.00	.65	.75	.55
402 lin.ft. 24-in. corrugated iron pipe	.80	2.00	.75	1.00	.75	.85	2.00	1.00	.80	1.00	.70
485 cu.yd. concrete, Class B, for culverts and monuments	17.00	11.00	8.00	15.00	16.47	10.00	14.00	10.00	15.00	15.00	12.00
4800 cu.yd. concrete, Class B, for pavement	5.00	4.50	3.67	5.00	4.28	4.45	5.52	5.80	4.75	5.20	3.55
3612 lin.ft. guard rail	.75	1.00	.40	.75	.50	.45	.45	.40	.40	.50	.40
72 monuments	1.50	1.00	1.00	2.00	1.00	1.50	1.00	2.00	1.00	1.00	.50
Extended totals	$57,328	$45,165	$34,583	$56,635	$46,130	$43,758	$48,451	$50,753	$49,841	$51,090	$38,576

Santa Clara County	K	L	M	N	O	P	Q	R	S	T	U	V	(Z-1)
14,500 cu.yd. excavation, unclassified	$0.80	$0.92	$0.625	$0.70	$3.30	$0.57	$0.60	$0.75	$0.72	$0.90	$0.84	$0.90	$0.75
72 lin.ft. 12-in. corrugated iron pipe	.50	.60	.50	.60	.50	.50	.50	.60	.50	.50	.65	.50	.50
230 lin.ft. 18-in. corrugated iron pipe	.70	.75	.50	.70	.60	.70	.65	.80	.70	.75	.84	.72	.70
38 lin.ft. 24-in. corrugated iron pipe	.90	1.25	.60	.80	.75	.85	.75	1.00	1.00	1.00	1.00	.97	.80
100 cu.yd. concrete, Class B, for culverts and monuments	12.00	10.00	9.00	10.00	10.00	9.50	10.00	10.00	12.00	11.00	8.00	11.25	8.00
12,380 cu.yd. concrete, Class B, for pavement	3.65	2.85	2.84	3.00	3.30	2.77	2.94	2.90	3.30	3.60	2.60	3.24	2.75
800 lin.ft. guard rail	.40	.50	.40	.20	.40	.35	.40	.50	.35	.40	.35	.27	.30
79 monuments	1.00	.50	1.00	.50	1.00	1.50	1.00	2.00	2.00	1.50	2.00	1.80	.50
Extended totals	$58,617	$50,326	$45,695	$48,724	$90,305	$44,135	$46,710	$48,600	$51,929	$59,403	$45,884	$54,882	$53,161

Alameda County	K	L	N	P	Q	S	T	V	W	(W-1)	X	(X-1)	Y	(Y-1)	Z	(Z-1)
13,800 cu.yd. excavation	$0.75	$0.90	$0.60	$0.50	$0.65	$0.70	$0.75	$0.70	$0.55	$0.60	$0.515	$0.60	$0.65	$0.60	$0.70	$0.60
2800 cu.yd. burrow excavation	.60	.45	.65	1.45	.90	.55	1.00	.35	.75	.65	.515	.80	.70	.60	.70	.50
300 lin.ft. 12-in. corrugated iron pipe	.50	.50	.60	.50	.60	.50	.50	.52	.50	.50	.75	.40	.30	.40	.50	.50
140 lin.ft. 15-in. corrugated iron pipe	.60	.60	.70	.60	.70	.60	.60	.63	.55	.63	1.00	.60	.40	.50	.50	.60
290 lin.ft. 18-in. corrugated iron pipe	.70	1.00	.75	.70	.80	.70	.75	.73	.65	.72	1.25	.75	.50	.55	.50	.70
110 lin.ft. 21-in. corrugated iron pipe	.80	1.00	.85	.75	.90	.80	.90	.87	.75	.80	1.50	.90	.60	.65	.50	.75
36 lin.ft. 24-in. corrugated iron pipe	.90	1.50	.90	.85	1.00	1.00	1.00	1.00	.80	1.10	2.00	1.00	.70	.75	.75	.80
100 lin.ft. 30-in. corrugated iron pipe	1.00	1.50	1.25	1.00	1.00	1.10	1.25	1.35	.90	1.50	2.50	1.25	1.00	.85	.75	1.10
215 cu.yd. concrete, Class B, for culverts and monuments	15.00	10.00	9.50	9.50	12.50	12.00	11.00	11.80	10.50	10.00	9.75	10.00	12.00	10.00	9.50	8.00
7100 cu.yd. concrete, Class B, for pavement	3.35	3.40	3.68	3.15	3.30	3.40	3.70	3.73	3.55	2.79	2.59	3.00	3.55	3.15	3.35	3.25
10,500 cu.yd. guard rail	.30	.35	.30	.35	.40	.30	.38	.27	.55	.29	.40	.30	.40	.40	.30	.30
37 monuments	1.00	1.00	1.50	1.50	1.00	2.00	1.50	1.80	1.00	1.50	1.00	1.50	2.00	.60	.50	.50
Extended totals	$42,884	$44,520	$42,222	$39,748	$42,589	$41,815	$46,542	$43,284	$43,581	$35,884	$34,485	$37,857	$43,471	$39,230	$41,138	$44,047

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.
Section No. 3—Route No. 12

Bids were received July 27 by the Public Service Commission for the construction of Section No. 3, Route No. 12 of the Eastern Parkway Subway from (A) Rodgers & Haggerty, Inc., (B) Charles Cooper, (C) T. A. Gillespie Co., (D) Dock Contractor Co., (E) A. L. Guidone & Son, Inc., (F) Battery Engineering & Construction Co. and Frazer & [illegible]rchenall, Inc., (G) Mason & Hanger Co., (H) Connex En[illegible]ering & Construction Co., (I) Joseph E. Gaffney, (J) W. [illegible]ahagan, Inc., (K) Degnon Construction Co., (L) John J. [illegible]m. The item bids were as follows:

	A	B	C	D	E	F
471,800 cu.yd. earth excavation above mean high water	$1.40	$1.63	$1.50	$1.73	$1.70	$1.55
9100 cu.yd. earth excavation above and below mean high water sewers	1.75	1.63	1.50	2.00	1.50	1.55
146 maintaining, protecting and preserving trees (per tree)	25.00	10.00	10.00	70.00	10.00	70.00
21 replacing trees, (per tree)	100.00	10.00	50.00	100.00	10.00	70.00
77,500 cu.yd. concrete masonry	7.00	6.50	7.00	6.50	7.00	6.50
3450 cu.yd. concrete masonry for reinforced concrete El. R.	8.00	6.50	12.00	12.50	8.00	10.00
2530 sq.yd. tooling concrete surface of R. concrete on El. R	.60	.90	.50	1.00	.65	.25
4600 cu.yd. protective concrete masonry outside of water proofing	7.00	6.50	7.00	6.50	7.00	6.50
20 cu.yd. rubble stone	3.00	6.50	8.00	7.00	4.50	4.50
20 cu.yd. dry rubble	3.00	6.50	3.50	7.00	3.50	3.50
35 cu.yd. brick masonry	15.00	12.00	12.00	15.00	12.00	20.00
3 cu.yd. vitrified brick masonry	30.00	20.00	25.00	35.00	15.00	25.00
50 cu.yd. hollow terra cotta brick or tile masonry	15.00	15.00	12.00	20.00	12.00	15.00
1000 grout of Portland cement	1.00	2.50	2.70	1.00	2.50	2.50
1000 lin.ft. timber piles	.01	.01	.40	.20	.40	.20
2 M ft. b.m. timber foundations	20.00	.01	45.00	40.00	50.00	25.00
20 cu.yd. broken stone or gravel	2.00	2.00	2.20	1.00	2.00	2.00
7000 sq.yd. waterproofing, 1 ply	.35	.50	.50	.40	.25	.35
100 sq.yd. waterproofing, 2 ply	.60	.75	.50	.70	.38	.60
33,000 sq.yd. waterproofing, 3 ply	.75	1.00	.90	1.00	.50	.90
100 sq.yd. waterproofing, 4 ply	1.25	1.20	1.00	1.25	.75	1.10
100 sq.yd. waterproofing, 5 ply	1.50	1.40	1.20	1.75	1.00	1.25
200 sq.yd. waterproofing, 6 ply	2.00	1.60	1.50	2.00	1.25	1.50
100 sq.yd. waterproofing, dry ply	.35	.45	.30	.20	.25	.30
840 cu.yd. brick laid in asphalt mastic	20.00	20.00	18.00	23.00	18.00	21.00
50 lin.ft. 12-in. vitrified drain pipe	.75	.70	.80	1.50	.60	.75
50 lin.ft. 10-in. vitrified drain pipe	.65	.60	.60	1.30	.50	.60
50 lin.ft. 8-in. vitrified drain pipe	.50	.50	.40	1.20	.40	.45
50 lin.ft. 6-in. vitrified drain pipe	.45	.40	.30	1.10	.30	.35
380 lin.ft. 4-in. vitrified drain pipe	.40	.30	.20	1.50	.25	.25
50 lin.ft. 6-in. c.i. drain pipe	1.00	1.00	.80	1.50	.75	1.25
50 lin.ft. 4-in. c.i. drain pipe	.50	.60	.60	1.00	.60	1.00
50 lin.ft. 10-in. c.i. drain pipe	1.75	1.50	1.60	2.00	1.50	2.25
50 lin.ft. 3-in. c.i. pipes and fittings (extra heavy)	1.00	1.00	.60	.85	.75	.80
1950 lin.ft. 4-in. c.i. pipes and fittings (extra heavy)	1.25	1.25	.72	1.25	.80	1.00
150 lin.ft. 6-in. c.i. pipes and fittings (extra heavy)	1.50	1.50	1.10	1.35	1.00	1.50
150 lin.ft. 8-in. c.i. pipes and fittings (extra heavy)	2.50	2.00	1.40	2.00	1.25	2.00
354,600 duct ft. tunnel ducts	.10	.09	.11	.11½	.10	.08
92,200 duct ft. railroad ducts	.14	.12	.30	.15	.11	.12
5550 ton riveted steel	55.00	48.00	54.00	55.90	52.95	60.00
6100 ton steel beams and shapes	55.00	48.00	51.00	49.15	46.70	55.00
950 ton steel rods and bars	55.00	48.00	40.00	44.00	70.00	60.00
40 ton miscellaneous iron castings	60.00	70.00	56.00	30.00	60.00	70.00
1 ton miscellaneous iron furnishings	100.00	70.00	61.00	100.00	75.00	70.05
200 special wire forms	.10	.12	.12	.20	.08	.10
14,200 lin.ft. 1½-in. seasoned oak or ash hand rail	.30	.30	.40	.22	.25	.35
310 lin.ft. 1½-in. galvanized iron pipe railings	.30	.70	.40	.50	.35	1.00
8300 sq.ft. steel gratings for ventilation, including frames	1.50	1.30	1.30	1.40	1.35	1.50
890 sq.ft. vault lights	1.00	1.30	1.30	1.30	1.25	1.30
40 sq.yd. sidewalk restored, including curbs	1.50	1.00	1.00	1.00	1.00	1.50
50 sq.yd. roadway restored (macadam)	1.00	1.00	.60	1.00	.50	1.00
1955 sq.yd. roadway restored (asphalt)	2.50	2.50	2.00	1.50	2.25	2.25
6660 sq.yd. roadway restored (granite block)	.75	2.00	.25	.50	1.25	2.50
180 sq.yd. roadway restored (Belgian block)	.75	.80	.25	1.00	.25	.70
540 sq.yd. roadway restored (asphalt block)	2.50	2.50	3.00	2.00	2.50	3.00
100 lin.ft. new Bluestone curb	1.00	1.00	1.00	1.00	.90	1.50
100 lin.ft. new 8-in granite	1.50	1.50	2.00	1.00	1.25	1.50
50 sq.yd. roadway restored (brick pavement)	3.00	2.00	2.00	1.80	1.80	2.00
25,000 sq.yd. roadway restored macadam and asphalt bound	1.50	1.50	.75	.50	.85	1.40
1690 sq.yd. park surface restored	.50	1.20	.50	1.00	1.00	1.00
4600 lin.ft. ¾-in. w.i. electric conduits	.15	.20	.16	.18	.10	.20
625 lin.ft. 1¼-in. w.i. electric conduits	.25	.40	.31	.32	.20	.30
675 lin.ft. 2-in. w.i. electric conduits	.30	.60	.38	.40	.30	.40
6075 lin.ft. 1-in. w.i. electric conduits	.20	.30	.23	.24	.20	.25
700 c.i. outlet boxes	1.00	1.50	.70	.50	.75	1.00
12 c.i. pull boxes	1.50	1.50	.70	3.50	1.25	1.50
160 lin.ft. 6-in. c.i. pipes and fittings (extra heavy) in stations	1.50	2.00	.90	3.00	1.25	1.50
125 lin.ft. 3-in. c.i. pipes and fittings (extra heavy) in stations	1.00	1.00	.40	2.75	1.00	1.00
100 lin.ft. 12-in. vitrified sewer pipe	2.40	3.00	1.20	3.70	1.40	2.00
100 lin.ft. 18-in. vitrified sewer pipe	3.25	4.00	2.00	4.00	2.10	3.00
540 lin.ft. 24-in. vitrified sewer pipe	5.00	5.00	3.80	4.80	3.00	4.50
11 ton c.i. straight sewer pipe	40.00	40.00	45.00	50.00	40.00	45.00
5 ton c.i. special sewer pipe	75.00	50.00	65.00	70.00	75.00	90.00
1030 lin.ft. 3ft., 6 in. x 2 ft., 4 in. egg-shaped sewer brick or concrete	6.00	7.00	5.50	5.00	6.25	6.00
780 lin.ft. 4 ft., 6 in. circular sewer	8.00	10.00	6.50	6.00	7.00	10.00
400 lin.ft. electric overhead trolley	2.00	10.00	6.00	.50	1.00	5.00
100 lin.ft. 6-in. water pipe	.05	1.00	1.10	2.00	.80	1.10
550 lin.ft. 8-in. water pipe	.05	1.30	1.50	2.00	1.00	1.50
100 lin.ft. 36-in. water pipe	.05	3.50	5.00	7.00	5.00	5.00
10 service connection for water pipes (all sizes)	.05	20.00	20.00	10.00	10.00	20.00
100 lin.ft. 4-in. gas pipe	.05	.60	.75	.90	.75	.60
700 lin.ft. 6-in. gas pipe	.05	.75	1.00	1.00	.85	1.00
150 lin.ft. 8-in. gas pipe	.05	1.00	1.25	1.15	1.00	1.50
2840 lin.ft. 12-in. gas pipe	.05	1.50	1.50	.75	1.25	1.75
100 lin.ft. 30-in. gas pipe	.05	3.00	3.00	4.00	2.00	5.00
450 lin.ft. 6-in. w.i. by passing pipe upon or below street service	.05	3.00	2.00	1.00	1.30	2.50
2435 lin.ft. 12-in. w.i. by passing pipe upon or below street service	.05	5.00	3.15	1.50	2.00	4.00
300 lin.ft. 12-in. w.i. by passing pipe on trestle	.05	5.00	4.00	1.50	1.00	5.00
150 lin.ft. 24-in. w.i. by passing pipe on trestle	.05	12.00	6.00	3.00	2.40	10.00
390 lin.ft. 6-in. w.i. by passing pipe on trestle	.05	3.00	2.75	1.00	.50	3.00
600 lin.ft. trestle to support by passing pipes	.05	4.00	3.00	1.50	.75	4.00
10 service connection for gas pipes (all sizes)	.05	20.00	15.00	10.00	10.00	15.00
10 ton new c.i. hub and spigot pipe (straight)	20.00	50.00	35.00	45.00	40.00	40.00
10 ton new c.i. hub and spigot pipe (special)	40.00	70.00	70.00	70.00	60.00	70.00
3300 duct ft. electric ducts and conduits	.05	.50	.65	.90	.40	.60
1300 lin.ft. 2-in. Edison w.i. electric ducts and conduits	.05	1.00	.50	.60	.40	1.50
200 lin.ft. 2½-in. Edison w.i. electric ducts and conduits	.05	1.00	.65	.80	.45	2.00
100 lin.ft. 3-in. Edison w.i. electric ducts and conduits	.05	1.00	.65	1.00	.50	2.50
10 service connection for electric ducts	.05	20.00	10.00	25.00	15.00	15.00
600 duct ft. wooden electric ducts and conduits	.05	.50	.65	.60	.50	.75
Extended totals	$2,170,652	$2,192,301	$2,204,674	$2,271,167	$2,284,901	$2,287,743

CATALOG NOTICES

Stephens-Adamson Mfg. Co., Aurora, Ill. Section 5, General Catalog No. 19. Gravel washing plants, screens, cars, hoists, etc. Illustrated, 622 pp., 6x9 in.

Picher Lead Co., Chicago, Ill. Catalog. Protective coatings for structural metals. Illustrated, 46 pp., 6x9 in.

Corrugated Bar Co., Buffalo, N. Y. Catalog. Corr-Mesh and Corr-Mesh lath, Corr-Bar-O waterproofing products. Illustrated, 64 pp., 6x9 in.

Westinghouse Electric & Mfg. Co. (Heavy Traction Dept.) East Pittsburgh, Penn. Circular No. 1505. Results of Electrification. Illustrated, 72 pp., 8½x11½ in.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.—(Continued)

	G	H	I	J	K	L
471,800 cu.yd. earth excavation above mean high water	$1.75	$2.15	$1.75	$1.70	$1.85	$3.10
9100 cu.yd. earth excavation above and below mean high water sewers	1.75	4.00	2.00	1.70	3.00	3.00
146 maintaining, protecting and preserving trees (per tree)	25.00	10.00	20.00	50.00	30.00	51.00
21 replacing trees, (per tree)	60.00	100.00	100.00	100.00	100.00	50.00
77,500 cu.yd. concrete masonry	7.00	7.00	7.25	7.75	7.50	8.00
3450 cu.yd. concrete masonry for reinforced concrete Fl. R.	8.75	8.00	9.50	12.00	10.00	10.00
2530 sq.yd. tooling concrete surface of R. concrete on Fl. R	.65	2.00	.70	2.00	2.00	1.00
4600 cu.yd. protective concrete masonry outside of water proofing	7.00	6.50	7.25	7.50	7.50	8.00
20 cu.yd. rubble stone	6.00	5.00	7.50	7.00	6.00	8.00
20 cu.yd. dry rubble	5.00	4.00	6.00	7.00	5.00	6.00
35 cu.yd. brick masonry	15.00	15.00	17.00	20.00	15.00	15.00
3 cu.yd. vitrified brick masonry	17.00	15.00	25.00	30.00	20.00	30.00
50 cu.yd. hollow terra cotta brick or tile masonry	15.00	15.00	15.00	16.00	15.00	15.00
1000 grout of portland cement	2.50	2.00	2.75	1.00	1.50	2.50
1000 lin.ft. timber piles	.50	.20	.40	.01	.50	.35
2 M ft. b.m. timber foundations	50.00	25.00	50.00	50.00	50.00	50.00
20 cu.yd. broken stone or gravel	2.50	1.75	2.00	2.50	2.00	2.00
7000 sq.yd. waterproofing, 1 ply	.45	.30	.45	.27	.50	.40
100 sq.yd. waterproofing, 2 ply	.60	.47	.70	.50	.75	.65
33,000 sq.yd. waterproofing, 3 ply	.95	.75	1.10	.75	1.00	1.00
100 sq.yd. waterproofing, 4 ply	1.20	.90	1.30	1.00	1.25	1.25
100 sq.yd. waterproofing, 5 ply	1.50	1.12	1.70	1.25	1.50	1.50
200 sq.yd. waterproofing, 6 ply	1.80	1.32	2.30	1.50	1.75	2.50
100 sq.yd. waterproofing, dry ply	.30	.30	.40	.15	.40	.30
840 cu.yd. brick laid in asphalt mastic	25.00	19.00	28.00	20.00	20.00	25.00
50 lin.ft. 12-in. vitrified drain pipe	.90	.75	1.00	1.20	.80	.70
50 lin.ft. 10-in. vitrified drain pipe	.80	.65	.85	1.00	.60	.60
50 lin.ft. 8-in. vitrified drain pipe	.50	.55	.70	.80	.50	.50
50 lin.ft. 6-in. vitrified drain pipe	.40	.45	.60	.70	.40	.40
380 lin.ft. 4-in. vitrified drain pipe	.25	.40	.50	.50	.30	.30
50 lin.ft. 6-in. c.i. drain pipe	1.20	.75	1.50	1.50	1.50	1.00
50 lin.ft. 4-in. c.i. drain pipe	.75	.50	1.00	1.00	1.00	.60
50 lin.ft. 10-in. vitrified c.i. drain pipe	2.00	1.20	2.25	2.00	2.25	1.50
50 lin.ft. 3-in. c.i. pipes and fittings (extra heavy)	.90	.60	.75	1.00	1.00	.75
1950 lin.ft. 4-in. c.i. pipes and fittings (extra heavy)	1.00	.80	1.25	1.00	1.00	1.00
150 lin.ft. 6-in. c.i. pipes and fittings (extra heavy)	1.40	.90	1.50	1.50	1.50	1.25
150 lin.ft. 8-in. c.i. pipes and fittings (extra heavy)	2.00	1.20	1.60	2.00	2.00	2.00
354,600 duct ft. tunnel ducts	.10	.09	.10	.10	.15	.11
92,200 duct ft. railroad ducts	.13	.11	.14	.16	.20	.16
5550 ton riveted steel	55.00	51.50	58.00	60.00	58.00	63.00
6100 ton steel beams and shapes	48.00	45.00	52.00	53.00	55.00	57.00
950 ton steel rods and bars	50.00	35.00	60.00	60.00	50.00	50.00
40 ton miscellaneous iron castings	65.00	40.00	80.00	70.00	50.00	50.00
1 ton miscellaneous iron furnishings	70.00	90.00	110.00	100.00	50.00	50.00
200 special wire forms	.10	.06	.11	.25	.15	.10
14,200 lin.ft. 1¼-in. seasoned oak or ash hand rail	.40	.15	.20	.25	.50	.50
310 lin.ft. 1¼-in. galvanized iron pipe railings	.40	1.25	1.15	.50	.70	1.50
8300 sq.ft. steel gratings for ventilation, including frames	1.50	1.10	1.50	1.20	1.50	1.50
890 sq.ft. vault lights	1.40	1.00	1.40	1.10	1.25	1.50
40 sq.yd. sidewalk restored, including curbs	1.75	.75	1.00	4.00	2.00	2.00
50 sq.yd. roadway restored (macadam)	1.25	.30	.75	2.00	1.75	1.50
1955 sq.yd. roadway restored (asphalt)	2.65	.75	2.50	2.00	2.50	2.50
6660 sq.yd. roadway restored (granite block)	1.80	.30	2.35	.0Z	3.50	2.50
180 sq.yd. roadway restored (Belgian block)	2.25	.30	1.10	2.50	2.50	.75
540 sq.yd. roadway restored (asphalt block)	3.00	.30	2.50	2.00	2.50	2.55
100 lin.ft. new Bluestone curb	1.00	.60	1.10	1.20	1.50	1.00
100 lin.ft. new 8-in granite	1.25	1.20	1.35	2.20	1.75	2.00
50 sq.yd. roadway restored (brick pavement)	2.25	1.80	2.50	2.50	2.50	3.00
25,000 sq.yd. roadway restored macadam and asphalt bound	1.50	.35	1.25	1.50	1.00	1.50
1690 sq.yd. park surface restored	1.50	.50	.50	1.00	2.00	1.00
4600 lin.ft. ¾-in. w.i. electric conduits	.12	.20	.20	.40	.40	.20
625 lin.ft. 1¼-in. w.i. electric conduits	.25	.31	.30	.30	.50	.30
675 lin.ft. 2-in. w.i. electric conduits	.30	.45	.50	.30	.60	.40
6075 lin.ft. 1-in. w.i. electric conduits	.18	.29	.25	.25	.45	.25
700 c.i. outlet boxes	1.00	1.00	1.25	1.00	.75	1.00
12 c.i. pull boxes	2.00	1.30	5.00	10.00	6.00	5.00
160 lin.ft. 6-in. c.i. pipes and fittings (extra heavy) in stations	1.50	1.00	1.50	1.50	1.50	1.50
125 lin.ft. 3-in. c.i. pipes and fittings (extra heavy) in stations	.90	.70	1.10	1.00	1.00	.75
100 lin.ft. 12-in. vitrified sewer pipe	3.00	3.50	3.00	3.00	3.00	3.25
100 lin.ft. 18-in. vitrified sewer pipe	4.00	4.00	4.00	4.00	4.00	3.75
540 lin.ft. 24-in. vitrified sewer pipe	4.80	5.00	5.50	5.00	4.50	4.50
11 ton c.i. straight sewer pipe	45.00	40.00	60.00	50.00	60.00	40.00
5 ton c.i. special sewer pipe	75.00	80.00	80.00	100.00	80.00	70.00
1030 lin.ft. 3ft., 6 in. x 2 ft., 4 in. egg-shaped sewer brick or concrete	6.20	6.00	10.00	7.00	8.00	5.75
780 lin.ft. 4 ft., 6 in. circular sewer	7.40	9.00	13.00	12.00	10.00	8.65
400 lin.ft. electric overhead trolley	5.00	1.00	10.00	10.00	5.00	5.00
100 lin.ft. 6-in. water pipe	.75	.50	1.00	.80	1.50	1.00
550 lin.ft. 8-in. water pipe	1.00	.60	1.40	1.25	1.75	1.25
100 lin.ft. 36-in. water pipe	4.50	2.00	7.50	10.00	6.00	6.35
10 service connection for water pipes (all sizes)	12.00	20.00	25.00	25.00	25.00	15.00
100 lin.ft. 4-in. gas pipe	.75	.40	.75	.60	1.00	.75
700 lin.ft. 6-in. gas pipe	1.00	.50	1.25	.80	1.25	1.00
150 lin.ft. 8-in. gas pipe	1.20	.60	1.40	.90	1.50	1.25
2840 lin.ft. 12-in. gas pipe	1.75	1.00	2.00	1.70	2.00	1.75
100 lin.ft. 30-in. gas pipe	4.50	2.00	6.75	8.00	3.00	6.00
450 lin.ft. 6-in. w.i. by passing pipe upon or below street service	2.00	2.00	3.00	2.00	3.50	3.00
2435 lin.ft. 12-in. w.i. by passing pipe upon or below street service	3.00	3.20	4.50	3.00	4.00	4.00
300 lin.ft. 12-in. w.i. by passing pipe on trestle	4.00	2.75	6.00	4.00	4.00	4.50
150 lin.ft. 24-in. w.i. by passing pipe on trestle	6.00	3.00	12.00	8.00	7.00	8.00
390 lin.ft. 6-in. w.i. by passing pipe on trestle	2.00	1.75	3.75	3.00	3.50	3.00
600 lin.ft. trestle to support by passing pipes	2.00	2.25	5.00	2.00	1.50	3.50
10 service connection for gas pipes (all sizes)	15.00	20.00	20.00	30.00	25.00	10.00
10 ton new c.i. hub and spigot pipe (straight)	35.00	40.00	60.00	40.00	30.00	35.00
10 ton new c.i. hub and spigot pipe (special)	70.00	70.00	95.00	80.00	60.00	65.00
3300 duct ft. electric ducts and conduits	.50	.40	.50	.75	1.00	.50
1300 lin.ft. 2-in. Edison w.i. electric ducts and conduits	.45	.50	.70	.65	1.00	1.25
300 lin.ft. 2½-in. Edison w.i. electric ducts and conduits	.50	.60	.85	.70	1.00	1.50
100 lin.ft. 3-in. Edison w.i. electric ducts and conduits	.60	.70	1.10	.75	1.00	1.75
10 service connection for electric ducts	15.00	20.00	25.00	25.00	50.00	15.00
600 duct ft. wooden electric ducts and conduits	.50	.30	.45	.50	1.00	.60
Extended totals	$3,237,046	$2,414,460	$2,438,618	$2,441,221	$2,541,136	$3,196,207

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constructed under a former contract) on the State Arsenal Grounds, at 18th and Herr St., Harrisburg. The Board has revised the plans. Samuel B. Rambo, Capitol Bldg., is Supt.

†Baltimore, Md.—The B. F. BENNETT BUILDING CO., 23 South Howard St., Baltimore, has been awarded the contract for the construction of a two-story addition and alterations to the Union Square M. E. Church, Calhoun and Lombard St. Haskell & Barnes, 301 North Charles St., is Arch.

Meridian, Miss.—At an election held July 23 the citizens voted in favor of the question of issuing $40,000 in bonds. The proceeds will be used for the construction of a city hall and jail.

Hornbeck, La.—At an election held July 21 the citizens voted in favor of issuing $40,000 in bonds. The proceeds will be used for the construction of a school.

†Louisville, Ky.—The contract for the construction of a four-story, 116x154-ft. mercantile building on Fourth St., for the Speed Realty Co., has been awarded to the ALFRED STRUCK CO., Louisville. Loomis & Hartman, 51 Todd Bldg., is Arch. Noted July 8.

Cleveland, Ohio—Preliminary plans have been prepared by Hubbell & Benes, Arch., 4500 Euclid Ave., for the construction of a 112x290-ft. auditorium and lodge building at 3515 Euclid Ave. for the Al Koran Temple, Nobbles of the Mystic Shrine. The estimated cost is $200,000. Noted Dec. 31.

Newburg, Ohio—(Cleveland post office)—The Board of Administration, Newburg State Hospital, plans the construction of two additions to the hospital. Estimated cost, $50,000.

Springfield, Ohio—The Link Hotel Co. will construct a six-story 99x120-ft. hotel at Main and Limestone St. Estimated cost, $500,000. A. C. Link, J. B. Cartmell, Constantine Link and others are interested.

Tiffin, Ohio—The Pennsylvania R.R., the Baltimore & Ohio R.R., and the Cleveland, Cincinnati, Chicago & St. Louis Ry. plan to construct a Union Station at Tiffin.

Woodsfield, Ohio—Bids will be received until noon, Aug. 26, by F. W. Pollack, Clk., Bd. of Education, for the construction of a fireproof high school. Howard & Merriam, 8 East Broad St., Columbus, is Arch. Noted May 27.

✚**Youngstown, Ohio**—The contract for the construction of a hospital near the main south entrance to the Youngstown Sheet & Tube Co. has been awarded to HELLER BROS., Youngstown. Estimated cost, $75,000. C. F. Owsley is Arch. The company also plans the construction of a six-story brick office building and a modern laboratory. The estimated cost of both is $500,000.

Brazil, Ind.—The School Board has purchased a site at North Forest Ave. and Kruzan St. upon which to construct a high school. The estimated cost is $80,000.

✚**Marion, Ind.**—The Board of Directors of the Grant County Hospital Association has awarded the contract for the construction of a three-story modern hospital building to BARLEY & BOWMAN, Marion.

✚**Muncie, Ind.**—The contract for the construction of an office building for Ball Bros. Mfg. Co. has been awarded to CHARLES MORROW. Estimated cost, $75,000. Noted July 22.

Detroit, Mich.—Bids will be received until 4:15 p.m., Aug. 10, by Charles A. Gadd, Secy., Bd. of Education, 50 Broadway, for the construction of a 20-room school at Montclair and Meadowbrook Ave. Noted Feb. 4.

Chicago, Ill.—Wilkin J. Kohn, Chicago, plans to construct a 36-apartment building at Albany Ave. and Blaine Pl. The estimated cost is $110,000.

Chicago, Ill.—Henry L. Newhouse, Arch., 4630 Prairie Ave., is preparing plans for the construction of a ten-story hotel with a four-story 105x150-ft. wing at Grand Blvd. and 51st St. The estimated cost is $1,400,000. Work will soon begin on the wing.

Chicago, Ill.—A site has been purchased at Grand and Oakwood Blvd. by Thomas A. Collins, 133 West Washington St. for the construction of an apartment house. The estimated cost is $100,000.

✚**Appleton, Wis.**—The HACKWORTHY CONSTRUCTION CO., 814 College Ave., Appleton, has been awarded the contract for the construction of a two-story bank building for the Citizens National Bank. Cooledge & Hodgson, 134 South La Salle St., Chicago, Ill., is Arch. Estimated cost, $65,000. Noted June 17 and July 29.

Milwaukee, Wis.—Martin Tullgren & Son, Arch., Manhattan Bldg., is preparing plans for the construction of a four-story 90x150-ft. brick and concrete building at 1131 Sycamore St. for St. Catherine's Home for Working Girls. The estimated cost is $85,000. Noted July 22.

✚**Superior, Wis.**—The general contract for the construction of an orphan asylum for the Catholic Diocese of Superior, at Superior, has been awarded to TOMILSON & EGAN, Ashland, at $101,431. Noted Apr. 15 and July 1.

Forest City, Iowa—(Official)—Bids will be received until 2 p.m., Aug. 25, by H. R. Irish, Pres., of the Independent School District, for the construction of a high and grade school. Alban & Lockhardt, 347 Endicott Bldg., St. Paul, Minn., is Arch. Noted June 10 and July 8.

Crosby, Minn.—An election was held Aug. 2 to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of a school.

✚**Duluth, Minn**—The contract for the construction of an office building and a laboratory for the Minnesota Steel Co. has been awarded to the LOUNSBERRY-McLEOD CO., Duluth. Estimated cost, $100,000.

Fowler, Kan.—Bids will be received until Aug. 15 for the construction of a one- and two-story, 75x200-ft. brick bank and store building for the State Bank of Fowler. The estimated cost is $40,000.

Laramie, Wyo.—Bids will be received until noon, Aug. 10, by F. S. Burrage, Secy., Bd. of Trustees of the University of Wyoming, for the construction of a dormitory for the women on the campus. William Du Bois, 1614 Capitol Ave., Cheyenne, is Arch.

✚**Lewiston, Mont.**—STANTON & SMITH, Lewiston, at $45,787, has been awarded the contract for the construction of a church on Brooks Island, at Main St. Link & Haire, 413 Stapleton Blk., Billings, is Arch. Noted Apr. 29.

Warmspring, Mont.—The State of Montana is considering the construction of an asylum at Warmsprings. The estimated cost is $80,000.

Carthage, Mo.—An election will be held Sept. 14 to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of a sanitarium for the treatment of tubercular patients.

Dodson, Mo.—The Hillcrest Country Club plans to construct a clubhouse at 81st and Hickman Mill Rd. W. M. Beebe, 1012 East Armour Blvd., Kansas City, is Pres. Estimated cost, $40,000.

Kansas City, Mo.—Plans have been prepared by Owen & Payson, Arch., 713 Scarritt Bldg., for the construction of a church at 5137 Main St. for the Church of Visitation. The estimated cost is $50,000.

✚**Kansas City, Mo.**—The contract for the construction of a seven-story reinforced concrete building, to be known as the Ridge Arcade, at 916-18 Walnut St. for the Ridge Estate, New Ridge Bldg., has been awarded to the GEORGE A. FULLER CONSTRUCTION CO., 2218 Grand Ave., Kansas City. Estimated cost, $100,000. Smith, Rea & Lovitt, 601 Finance Bldg., is Arch. Noted July 1.

✚**Kansas City, Mo.**—The contract for the construction of a six-story, 70x117-ft. reinforced-concrete building at 201 East 22nd St., for the Morbros Investment Co., has been awarded to AIKEN & THAYER. John W. McKenzie, 1923 Gloyd Bldg., is Arch. Noted July 22.

Kansas City, Mo.—Plans have been prepared by Smith, Rea & Lovitt, Arch., 602 Finance Bldg., for the construction of a three-story fireproof building to be known as Hotel Rieger, at 1922 Main St. The estimated cost is $40,000.

✚**Kansas City, Mo.**—HARVEY STIVERS, 2447 West Ave., Kansas City, has been awarded the contract for the construction of a seven-story, 49x105-ft. business building at 1533-35 Walnut St. for W. F. Hall and F. G. Crowell. J. C. Sunderland is Arch. Estimated cost, $75,000. Noted July 22.

Palestine, Tex.—The City Commission has commissioned Sanguinet, Staats & Gottleib, Arch., 624 First National Bank Bldg., Houston, to prepare plans for the construction of a high school. The estimated cost is $100,000. Noted July 22.

San Diego, Tex.—(Official)—The Commissioners of Duval County have cancelled the election which was to have been held July 20 to vote on the question of issuing $700,000 in bonds for the construction of a courthouse. Charles Meirl, is Secy. of the San Diego Commercial Club. Noted July 1.

✚**Enid, Okla.**—WELLER & REARDON, Enid, at $41,000, has been awarded the contract for the construction of the State School for Feeble Minded. R. W. Shaw is Arch.

Norman, Okla.—The State Board of Affairs has approved and accepted plans prepared by Hawk & Parr, Arch., Security Bldg., Oklahoma, for the construction of the Science Hall at the University of Oklahoma. The Legislature has appropriated $100,000 for this work. Stratton D. Brooks is Pres. of the university.

Perry, Okla.—Bids will soon be received for the construction of a four-story, 76x98-ft. courthouse. The estimated cost is $100,000. W. T. Faris is County Clk. and J. W. Hawk, Oklahoma, is Arch. Noted May 27.

✚**Vinita, Okla.**—The contract for the construction of a three-story brick and reinforced-concrete building at the State Hospital for the Insane has been awarded to the KREIPKE-SCHAFER CONSTRUCTION CO., El Reno. Estimated cost, $50,000. Charles W. Dawson, 412 Iowa Bldg., Muskogee, is Arch.

Las Cruces, N. M.—Plans are being prepared by Trost & Trost, Box 271, El Paso, Tex., for the construction of a two-story hotel to be known as Hotel Hidalgo. The estimated cost is $65,000.

Salt Lake City, Utah—The Fraternal Order of Eagles, Salt Lake Aerie No. 67, plan to construct a three-story, brick clubhouse at Fourth South and West Temple St. N. Edward Liljenberg, 402 Newhouse Bldg., is Arch. The estimated cost is $50,000.

Miami, Ariz.—Preliminary plans have been prepared by Trost & Trost, Arch., Box 271, El Paso, Tex., for the construction of a three-story brick and reinforced-concrete hotel. The estimated cost is $100,000.

Grand Mound, Wash.—Bids will soon be received by the State Board of Control, Olympia, for the construction of a building at the State School for Girls. The estimated cost is $60,000. Watson Vernon, 1 Gabrielson & Holmer Bldg., Aberdeen, is Arch. Noted July 29.

Medical Lake, Wash.—Julius A. Zittel, Arch., 507 Jamieson Bldg., Spokane, has prepared plans for the construction of a group of buildings for the Institute of the Feeble Minded. The group will include an administration building, custodial building, two ward buildings, power house and laundry. Estimated cost, $292,000.

✚**Seattle, Wash.**—The contract for the construction of an 11-story 90x110-ft. fireproof office building at Third Ave. and Stewart St. for the Washington Securities Co., has been awarded to M. J. HURSON CO., Globe Bldg., Seattle. Estimated cost, $400,000.

Sedro Woolley, Wash.—Bids are being received by the State Board of Control, Olympia, for the construction of reinforced-concrete ward buildings and an auditorium at the Northern Hospital for the Insane. The estimated cost is $150,000. Heath & Gove, National Realty Bldg., Tacoma, is Arch.

Los Angeles, Calif.—Work will soon begin on the construction of a seven-story, 60x80-ft. addition at Olive and Sixth St. for the Pacific Mutual Life Insurance Co. of California. The estimated cost is $200,000. Col. D. Moore is Secy. Noted June 24.

Santa Barbara, Calif.—Palmer, Hornbostel & Jones, Arch., 63 William St., New York, N. Y., has been commissioned to prepare plans for the construction of a Carnegie Library. The estimated cost is $50,000. Francis W. Wilson, 717½ State St., Santa Barbara, is Superv. Arch.

San Pedro, Calif.—The Cresmer Mfg. Co., Riverside, at $92,000, submitted the lowest bid on the general contract for the construction of a brick and concrete school at 307 Fifth St. Joseph Bell De Remer, 622 Title Insurance Bldg., Los Angeles, is Arch. Noted Mar. 11.

Visalia, Calif.—Bids will be received until Aug. 16 by the Board of Supervisors of Tulare County for the construction of a steel and concrete bridge over the Kings River at Kingsbug, the estimated cost of which is $18,000.

Montreal, Que.—Bids are being received for the construction of a motion picture theater for the Independent Amusement Co., Ltd. The estimated cost is $100,000. D. J. Crighton, Jacobs Bldg., is Arch.

The Snare & Triest Co., of New York City, announced on July 29 its purchase of the business, good will, plans and records of R. P. & J. H. Staats Inc., a firm which has for 27 years been prominent in the construction of piers, docks and harbor work in New York and vicinity. R. P. Staats, the senior member of the firm retires from active business but Mr. J. H. Staat has purchased an interest in the Snare & Triest Co., and will be Vice-President of that organization.